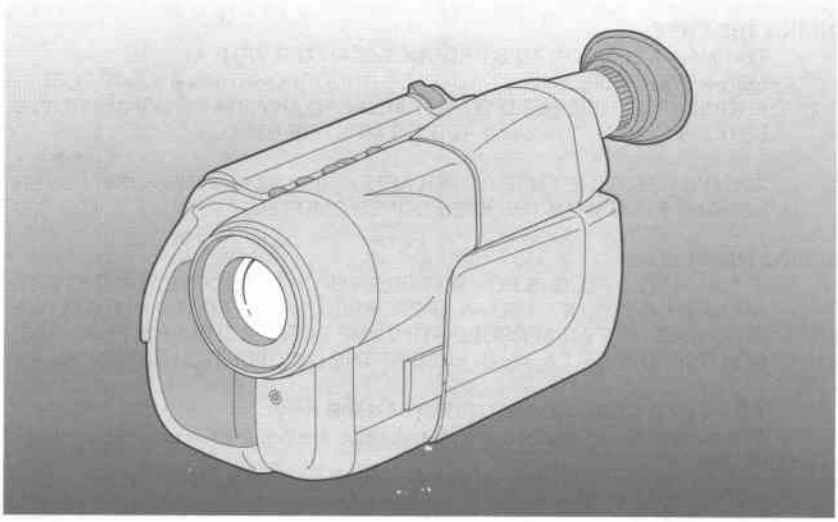
c3/23 - 761

8mm VIDEO CAMCORDER

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Instruction Manual



Canon

UC-V10Hi Hi8 / UC-V100 8

PAL

Important Usage Instructions

CAUTION:

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

CAUTION:

TO REDUCE THE RISK OF ELECTRIC SHOCK AND TO REDUCE ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

CAUTION:
CUSTOMERS IN THE U.K. SHOULD READ THIS BEFORE USING THIS PRODUCT.

CHANGING THE FUSE

THE MAINS LEAD ON THIS PRODUCT IS FITTED WITH A NON-REWIREABLE (MOULDED) PLUG, INCORPORATING A 3 AMP FUSE. SHOULD THE FUSE NEED TO BE REPLACED AN ASTA OR BSI APPROVED BS1632 FUSE OF THE SAME RATING MUST BE USED.

ALWAYS REFIT THE FUSE COVER AFTER REPLACING THE FUSE. NEVER USE THE PLUG WITH THE FUSE COVER OMITTED.

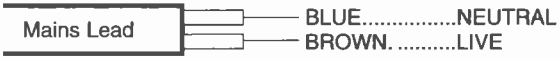
CHANGING THE PLUG

IF THE FITTED PLUG IS NOT SUITABLE FOR YOUR SOCKET OUTLETS, IT SHOULD BE CUT OFF AND AN APPROPRIATE PLUG FITTED IN ITS PLACE. IF POSSIBLE FIT AN APPROPRIATE 3 AMP FUSE. IF THE NEW PLUG HAS NO FUSE, THEN FIT A 5 AMP FUSE AT THE DISTRIBUTION BOARD.

AC POWER CORD CONNECTION (CA-950B only)

The wires in the mains lead of this apparatus are coloured in accordance with the following cord.

(IMPORTANT)



As the colours of the wires in the mains lead may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows: The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured black. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured red. Neither Blue wire or Brown wire is to be connected to the Earth pin of a 3 pin plug.

THE SEVERED PLUG MUST BE DESTROYED IMMEDIATELY TO AVOID ANY POSSIBLE ELECTRIC SHOCK HAZARD.

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Introduction

Thank you for choosing a Canon

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Introduction

First, we'd like to thank you for purchasing this Canon camcorder. Its advanced technology makes it very easy to use — you will soon be making high-quality videos which will give you pleasure for years to come.

To get the most out of your new camcorder, We recommend that you read this manual thoroughly — there are many sophisticated features which will add to your recording enjoyment.

Getting started

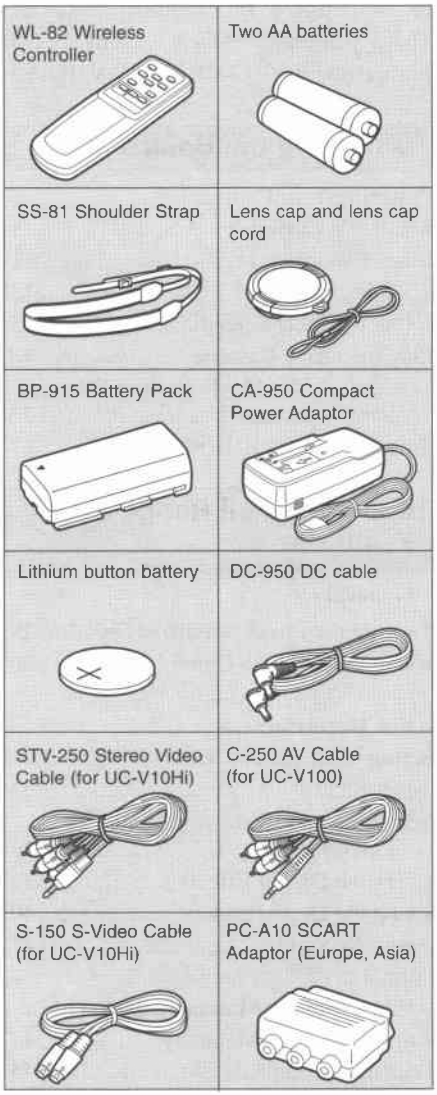
To get started we suggest that you master the basic operations of the camcorder first, before moving on to use its full range of features.

For quick reference (in addition to the contents and index) please refer to:

- Finding your way around the camcorder (p. 72)
- Screen displays (p. 75)
- Troubleshooting — in case you run into any problems (p. 64)

Note that capital letters are used to refer to settings appeared in the display and buttons labelled on the camcorder itself e.g. Press the EJECT ⏏ button.

Your camcorder is supplied with the following accessories:



Introducing the UC-V10Hi/UC-V100

LCD Screen



A big screen 3" LCD makes it easy for you to shoot colourful, well composed video. You can even put yourself in the frame and check the picture as you shoot. It is also great for playback.

Image Stabilizer



Stabilizes your recordings even at the furthest reaches of the zoom range.

16× lens and 72×/160× digital zoom



From wide-angle to 16× telephoto — with unparalleled optical quality. The digital zoom magnifies this up to 72× for even more dramatic results. Also, the picture magnifies up to 160× with Digital Effects.

Close Up



The subject can be digitally enlarged by 1.5× magnification.

Hi8 (UC-V10Hi)



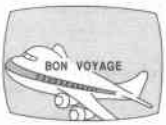
Hi8 is the format that most video professionals rely on for high quality and long recording times.

Digital Effects and faders



Advanced digital technology allows you to add special effects and scene transitions to your recordings.

Titles



You don't need any extra equipment to add titles to your home videos — the camera does it all.

Hi-fi stereo sound (UC-V10Hi)



The compact integral microphone offers the depth and realism of AFM in full dynamic stereo.

Long Time Recording



You can record up to 12 hours (13 hours for UC-V100) continuously with optional two BP-941 Battery Packs on the CH-900 Dual Battery Charger/Holder.

Powering Your Camcorder

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Before operating your camera, you will need to use the power adaptor to:

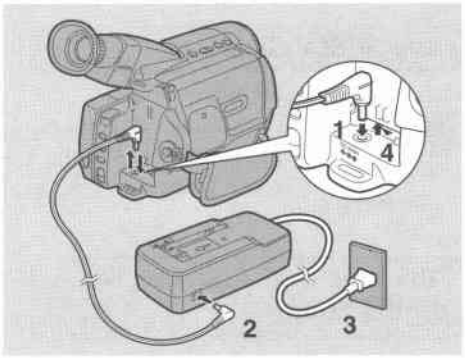
provide power from a mains outlet or **charge a battery pack**

Notes:

- The power adaptor converts current from a household power socket (110–240 V AC, 50/60 Hz) to the DC current used by your camera.
- If the adaptor is used next to a TV, it may cause the TV to emit noise — move the adaptor away from the TV or the antenna cable.

Connecting the camera to a mains outlet

Use the power adaptor and the DC cable to provide your camera with instant power from a mains outlet.



1. **Connect the DC cable to the camera.**
2. **Connect the DC cable to the adaptor.**
3. **Plug the adaptor into a mains outlet.**
 - The POWER indicator of the adaptor lights green.
4. **Remove the DC cable after use.**
 - Always turn the camera off before removing the power source.

Mastering the Basics

CA-950 Compact power adaptor

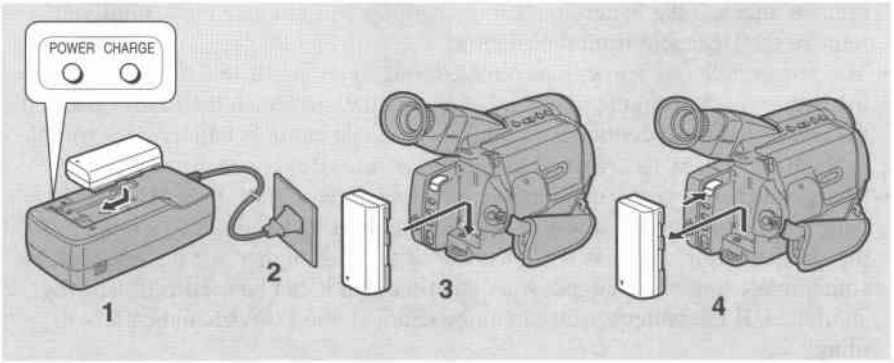
Specifications

Power Supply	110 – 240V AC, 50/60Hz
Power consumption	20W
Rated output	Adaptor mode: 6.0V, 2.0A DC Charger mode: 8.35V, 1.2A DC
Operating temperature range	0° – 40°C (32 – 104° F)
Dimensions	77 × 46 × 156 mm (3 × 1 3/4 × 6 1/8 in)
Weight	375 g (13 1/8 lb)

Weight and dimensions are approximate. Errors and omissions excepted. Subject to charge without notice.

CA-950 identification plate is located on the bottom.

Charging and attaching a battery pack



Your battery pack was partially charged before it left the factory. It should have enough power for you to check that your camera is working properly. However, you must charge the battery pack fully if you want it to power the camera for more than a few minutes.

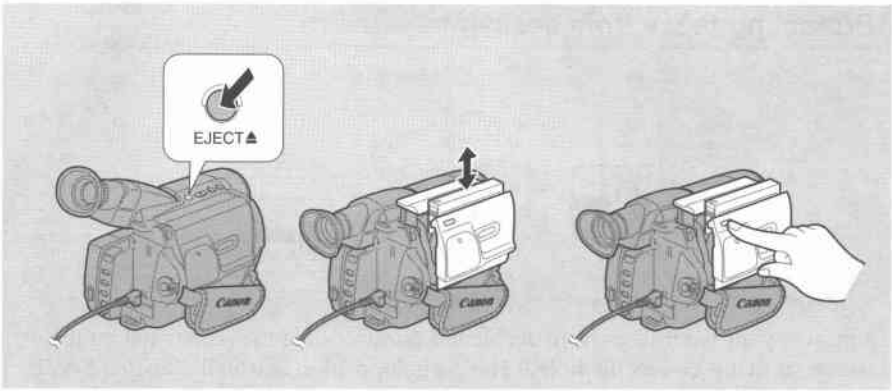
1. **Attach the battery pack to the power adaptor.**
 - Make sure the DC cable is not connected.
 - Align the triangle on the battery pack with the guide line on the power adaptor.
 - Slide it in the direction of the arrow until it clicks into place.
2. **Plug the power cable into a mains outlet.**
 - The charge indicator lights red and the power indicator lights green to show that charging is in progress.
 - When the battery pack is about 70% or more charged, the charge indicator starts to blink.
 - The charge indicator disappears when the battery pack is fully charged.
3. **Take the battery pack off the adaptor and insert it into the camera.**
 - Be sure to test the battery pack to check that it is properly attached.
4. **Remove the battery pack after use.**
 - Press and hold the BATTERY RELEASE button.
 - Always turn the camera off before removing the power source.

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Notes:

- When powering your camcorder from a mains outlet, you do not need to remove attached the battery pack, but charging will not take place until you remove the DC cable from the adaptor.
- The power indicator sometimes blinks during charging. If this happens, remove the battery pack from the power adaptor, and then re-attach the battery pack. If the power indicator continues to blink, a probable cause is battery pack trouble or the battery pack has reached the end of its life. Buy a new battery pack.
- Charge the battery pack in an ambient temperature of 10°C to 30°C. If the battery pack is charged at low or high temperatures, charging takes longer. If the ambient temperature is 0°C or lower or 50°C or higher, the battery pack sometimes cannot be charged. Also, the time that it can be used is drastically shortened. If the battery pack cannot be charged, the POWER indicator will blink.
- The battery pack warms up after it has been used or charged. The battery pack sometimes cannot be charged if it is warm.
- You can find detailed notes for using the batteries in the "Notes on Using the Batteries" on p. 57. These notes include charging and recording times and how to install the back-up battery.

Loading a Cassette



Use videocassettes marked with a Hi8 or 8.

Loading and unloading

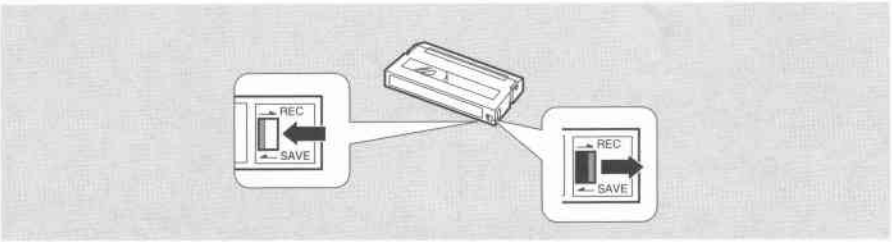
1. **Make sure that you have inserted a power source.**
2. **Press the EJECT ⏏ button and wait for the cassette compartment to open.**
3. **Load or unload the cassette.**
 - Insert the cassette gently with the window facing out.
 - Remove the cassette by pulling it straight out.
4. **Press the PUSH mark on the compartment until it clicks, and wait for it to close.**
 - Press the PUSH mark horizontally.

Notes:

- See p. 10 for information on protecting your recordings from accidental erasure.
- If no cassette is load and turn the camera on, "NO TAPE" flashes in the display.
- After loading a cassette, use record search (p. 36) to find the point where you want to start recording.
- Do not interfere with the cassette compartment while it is opening or closing automatically.
- Do not leave the cassette in the camera after use — return it to its case and store it in a cool, clean, dry place.
- The holes in the back of the cassette are used for transferring information — do not cover them.

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Protecting tapes from accidental erasure

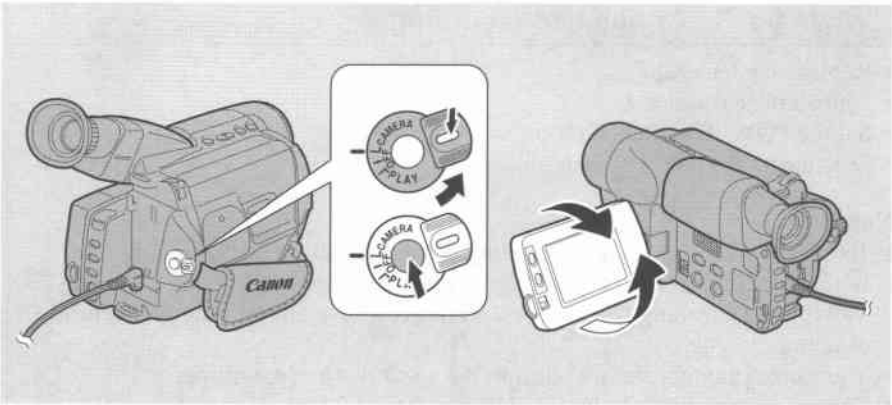


To protect your recordings from accidental erasure, slide the red switch on the cassette so that it covers the hole. (This switch position is usually labeled SAVE or ERASE OFF.) If you load this cassette and power on the camera, "TAPE" flashes for 5 seconds in the display.
If you want to record on the cassette again, slide the red switch back so the hole is open. (This position is usually labeled REC or ERASE ON.)

Handling cassettes

- To protect the tape heads, transfer cassettes directly from the tape case to the camcorder – do not open the tape protect cover or touch the tape itself.
- Do not use cassettes where the tape has been damaged or rejoined – they may damage the camcorder.
- Do not insert anything into the small holes on the cassette or cover them with cellophane tape.
- Handle cassettes with care – dropping them or exposing them to external shocks may cause internal damage.
- Store cassettes in the provided case, rewinding them to the start of the tape first, and then storing them upright.

Basic Recording



Before you start recording

Have you completed the following steps?

- Attached a power source (p. 6).
- Loaded a cassette (p. 9).
- Adjust the LCD screen or viewfinder, fasten the grip belt and take off the lens cap (p. 16, 55).

You may also want to install the backup battery (p. 59) in order to set the date and time display (p. 31).

To record

1. **Press down and turn the POWER switch to CAMERA.**
 - PAUSE appears in the display — the camera is now in "record pause mode."
2. **Press the start/stop button to begin recording.**
 - The tally lamp flashes and REC appears in the display.
3. **Press the start/stop button again to pause recording.**
 - The camera returns to record pause mode and PAUSE reappears in the display.
 - You can stop and restart recording as often as you like by pressing the start/stop button.
 - The camera will turn itself off it you leave it in record pause mode for more than about five minutes. To return to record pause mode, repush the start/stop button, or set the power switch to OFF and then back to CAMERA.

When you have finished recording

- Replace the lens cap.
- Unload the cassette.
- Set the POWER switch to OFF.
- Disconnect the power source.

Notes:

- To check that the camera is recording correctly, make a test recording first.
- Before making important recordings, clean the video heads using a Canon CC-8 Video Head Cleaning Cassette or a commercially available 8mm video head cleaning cassette.
- You cannot monitor the sound from the speaker when recording.
- For tips on how to make better videos, see page 27.

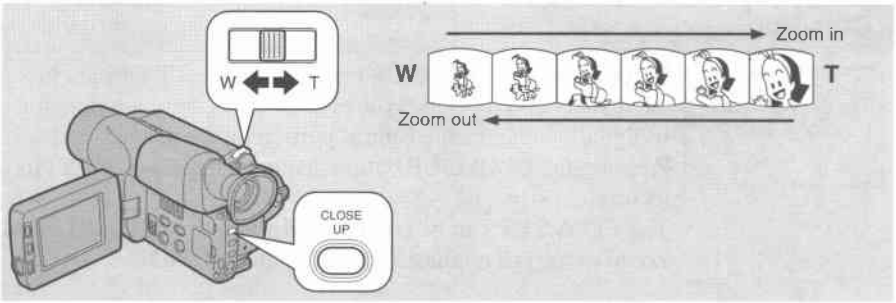
Recording with the LCD screen

In place of using the viewfinder, you can also monitor recording using the LCD screen.
When you open the LCD panel, the viewfinder turns off automatically.
For more details please refer to "Using the LCD Screen" (p. 15).

Notes:

- You cannot monitor the sound from the speaker during recording.
- The LCD screen uses a lot of power, so the possible recording time will be less than if you were to use the viewfinder.
- Be sure to return the LCD panel flush to the camera body, when you have finished recording with the LCD screen.
- The viewfinder cannot be used if the LCD screen is opened as follow:
 - When the LCD screen is opened between 60° to 90° horizontally.
 - When the LCD screen is opened 90° and rotated 90° until it becomes horizontal.
 - When the LCD screen is opened 90°, rotated 180°, horizontally closed and swung into the body.

Zooming



16× optical zoom

The camera's 16× zoom lens allows you to choose the best picture angle for each scene:
- Turn the zoom control towards W to zoom out to wide-angle.
- Turn it towards T to zoom in to telephoto.

When you operate the zoom lever, the zoom bar indicatoring the zooming position appears in the display, and after about 5 seconds, the display disappears.
The T and W buttons on the wireless controller adjust the picture angle, but not the zoom speed.

72× digital zoom

Turn the zoom control towards T until D.ZOOM appears in the display, to 4.5× the camera's zoom range.



The zoom control continues to work as usual. You can freely zoom in and out between 1× and 72× magnification — the camera automatically switches between optical zooming (up to 16×) and digital zooming (16× to 72×).
D.ZOOM disappears in the display when return to optical zooming.

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Close up



If you press the CLOSE UP button, CLOSE-UP appears in the display and the subject is enlarged by 1.5× magnification. It digitally enlarges the central portion of the image.
Pressing the CLOSE UP button again enlarges the subject to its original size.
The CLOSE UP can be combined with the Extra Long Digital Zoom (p. 38) to produce a magnification of 240×.

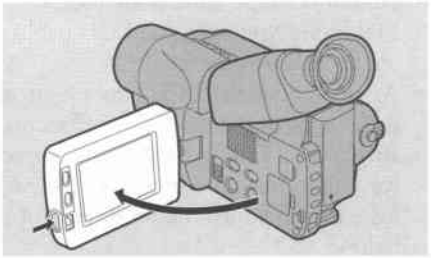
Notes:

- When you want to get as close as possible to your subject, keep the zoom at the wide-angle position. You can focus on a subject as close as 1 cm (3/8 in).
- Image resolution is slightly lower when the magnification is greater than 16×.
- Optical Zooming and Digital Zooming can also be operated from the wireless controller. However, CLOSE-UP and Extra Long Digital Zoom are operated only from the camcorder.

Using the LCD Screen

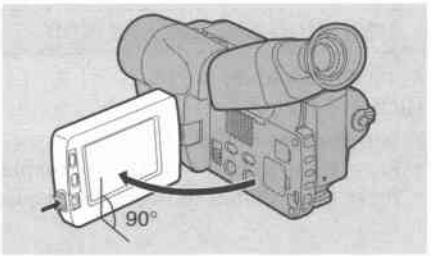
Open the LCD screen

Push the OPEN button and open the panel by pulling it away from the camera. This automatically switches the LCD screen on and the viewfinder off. When you close the LCD panel, the LCD screen automatically switches off and the viewfinder switches back on.

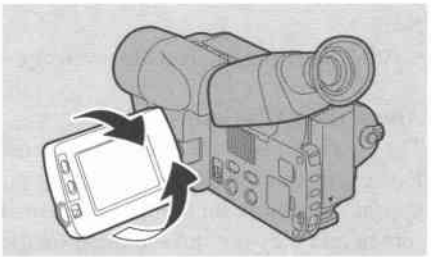


Changing the angle of the LCD screen

First open out the LCD panel at right angles (90°) to the camera.

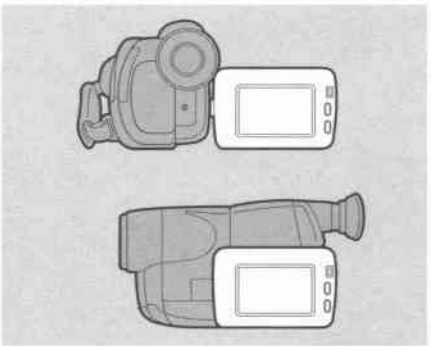


You can now choose the angle of the panel that suits you best by rotating it backwards (up to 200°) and forwards (up to 90°) about this axis.



If you rotate the panel backwards around to 180° you can include yourself in the picture, while monitoring the shot on the LCD screen (p.17).

From this position you may also push the panel flat against the camera until it is flush with the side, with the screen facing outwards.



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Notes:

- Avoid touching the LCD screen when moving the LCD panel.
- Do not hold the camera by the LCD panel.
- Make sure you open the LCD panel at 90°, before attempting to rotate it backwards or forwards.
- Always rotate the LCD panel vertically into place, before closing it or pushing it flat against the side of the camera.
- Bright light falling on the LCD screen may cause glare that makes it difficult for you to view the image. In the case, switch to using the viewfinder. You are also able to adjust the brightness of the screen (see "Adjusting the LCD screen" below).
 The camera automatically brightens the backlight of the screen when recording outdoors.

Adjusting the LCD screen

You can adjust the brightness of the LCD screen. Adjust the level using the BRIGHT button.
A bar showing the level appears in the display.

- Press the + button to make the display brighter.
- Press the – button to make the display darker.



Note:

- A bar showing the brightness disappears from the display during playback.

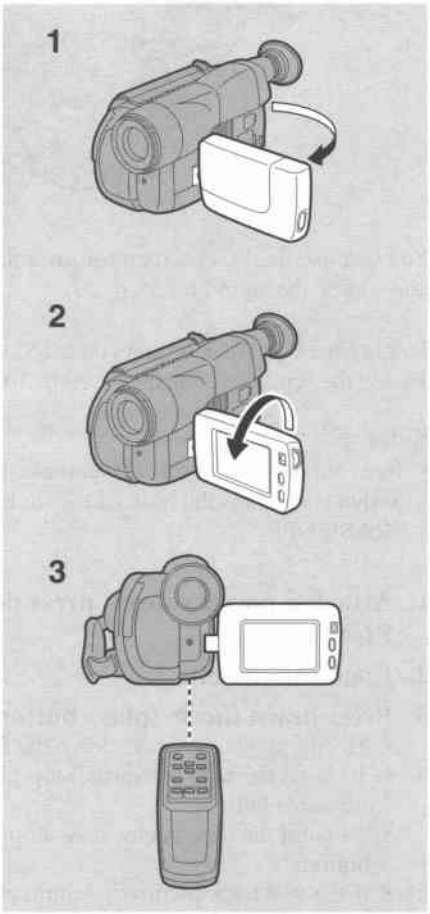
About the LCD Screen

The LCD screen built into this camcorder is a high precision product. However, small black dots or bright points of light (red, blue or green) may appear constantly on the LCD screen. This is not a malfunction of the LCD screen and they are not recorded on the tape. (Effective dots: more than 99.99%)

Including yourself in the picture

(while monitoring the shot in the LCD screen)

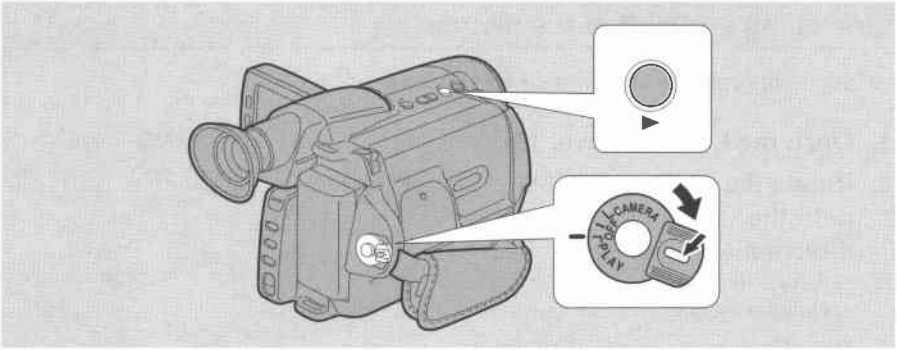
1. **Open the LCD panel (p. 15).**
2. **Rotate the LCD panel 180° until the screen faces the same direction as the lens.**
 - Adjust the angle so that you can view it easily.
3. **Use the remote control to start and stop recording (p. 30).**



Notes:

- When you flip over the LCD panel, the display automatically changes to a mirror-image.
- It is also possible to monitor the shot through the viewfinder while the subject monitors the shot in the LCD screen.
- Screen displays are reversed, and titles/dates are correctly recorded without affecting the recording.

Playing back a Cassette



You can use the LCD screen for instant, on-the-spot playback. The camera also plays back the sound track (p. 20).

To play back your recordings on a TV, see p. 22.
To use the wireless controller, see p. 30.

Note:

- To avoid accidental recording, make sure that you slide the tab on the cassette so that it exposes the hole (the switch position is usually labelled SAVE or ERASE OFF).

1. **Attach a power source, press down and turn the POWER switch to PLAY.**
2. **Load the cassette.**
3. **Press down the ▶ (play) button to start playback.**
 - To end playback, press down the ■ (stop) button.
 - To wind the tape forwards, stop playback and press down the ▶▶ (fast forward) button.
 - To wind the tape backwards, stop playback and press down the ◀◀ (rewind) button.
 - If the playback picture is rough, clean the video heads using a Canon CC-8 Video Head Cleaning Cassette or a commercially available 8mm video head cleaning cassette.

Special playback

Still playback

To view the video as a still picture, press down the start/stop button (or press the start/stop button during pause playback, and press the ▶ (play) button). Press the button again to resume normal playback. The camera automatically goes into stop mode after about five minutes' playback pause.

Fast forward playback

To play back the recording at 9 times the normal speed (6 times normal speed when the LCD panel is opened.), press and hold the ▶▶ (fast forward) button during normal playback.

Rewind playback

To play back in reverse at 7 times the normal speed (4 times normal speed when the LCD panel is opened.), press and hold the ◀◀ (rewind) button during normal playback.

High-speed search

To play back the recording at about 9 times normal speed, press and hold the ▶▶ (fast forward) button during normal fast forward. For reverse playback at about 7 times normal speed, press and hold the ◀◀ (rewind) button during normal rewind.

Notes:

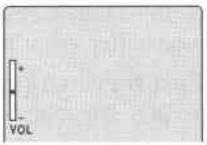
- Noise bars do not appear on the LCD screen during still playback, fast forward playback and rewind playback and the sound track cannot be heard (Clear Search).
 Some flicker or distortion may appear on the screen of the viewfinder or a television which is connected.
 With the LCD closed during special playback (except in high-speed search), some flicker or distortion may appear on the screen when the LCD is then opened.
- During still playback, fast action scenes may appear blurred.
- You can use the wireless controller's ON SCREEN button to turn the on-screen displays on/off.

Built-in speaker

The camera has a built-in speaker so you can review the sound track alongside the picture during playback.

Adjust the speaker volume by pressing the FOCUS button.

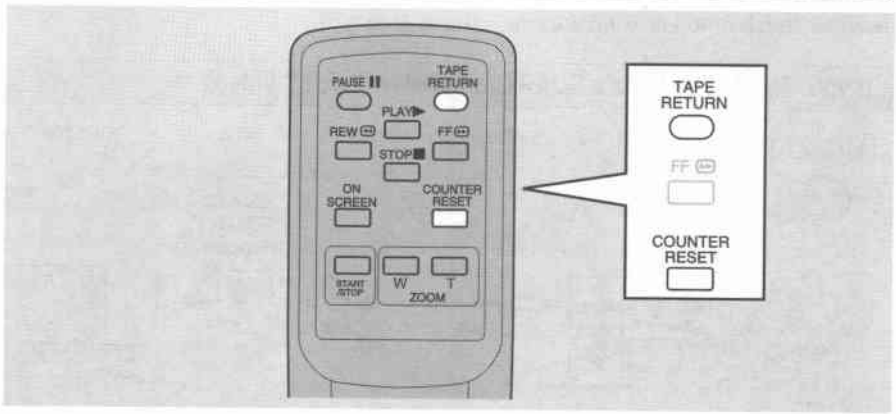
- A bar appears in the display temporarily to indicate the current volume.
- Press the F button to increase the volume. Press the N button to decrease the volume.



Notes:

- When the LCD panel is closed, the speaker does not work.
- A bar showing the volume disappears from the display during playback.

Tape return



Use the wireless controller's TAPE RETURN button to quickly return to a scene you want to see again. You can only operate this from the wireless controller.

1. **Press the COUNTER RESET button during playback if you come across a scene you want to watch again later.**
 - The tape counter is reset to 0:00:00.
2. **When you have ended playback, press the TAPE RETURN button.**
 - T.RTN ▶▶ when leaving a "–" mark in the front of the counter or T.RTN ◀◀ when not leaving it appears in the display.
 - The tape is wound forwards or backwards when the counter nears 0:00:00.
 - You can cancel tape return by pressing the ■ (stop) button.



3. **Start playback.**

Notes:
- The tape counter is reset when a cassette is unloaded.
- You cannot use the tape return when the tape counter nears 0:00:00.

About Hi8 (for UC-V10Hi)

To record or play back in the Hi8 format, you need both a Hi8 camcorder and a Hi8 cassette (you can use either Metal-P or Metal-E Hi8 cassettes).

A Hi8 camcorder can record or play back in either the Hi8 format or standard 8mm format, depending on the tape used.

The superior quality of Hi8 can best be appreciated on a TV which has an S-video input terminal.

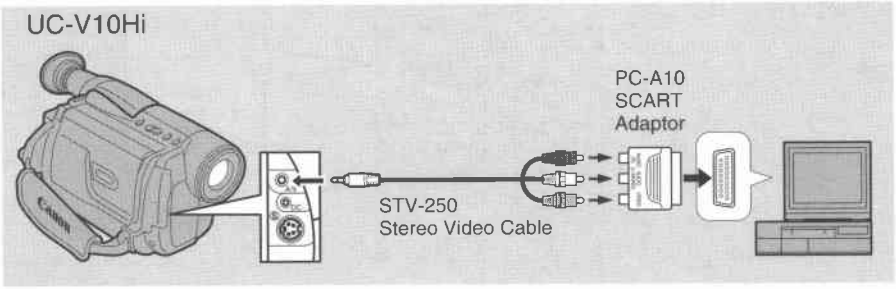
Connections for Playback on a TV Screen

E

You can connect the camera to a TV or VCR in order to play back your recordings. See your TV or VCR instruction manual for further details. You will need to attach a power source to the camera (see p. 6).

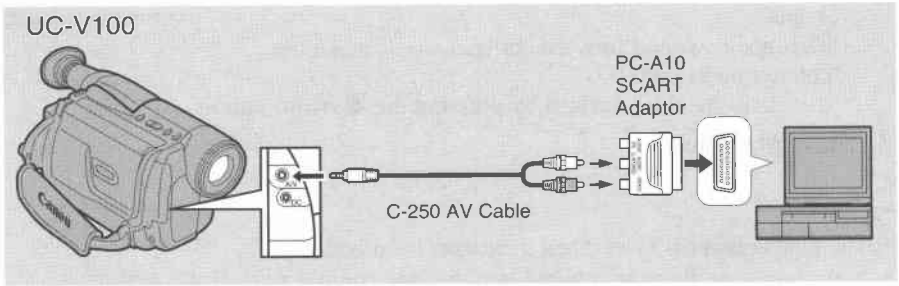
If your TV (or VCR) has a SCART terminal (without S-video)

UC-V10Hi



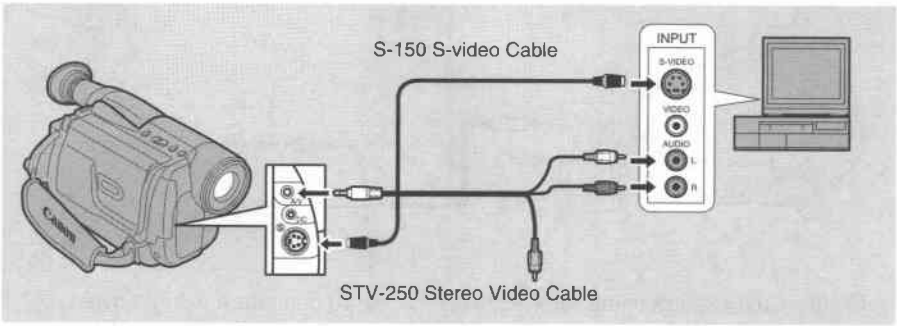
- Connect the PC-A10 SCART adaptor to the TV or VCR's SCART terminal.
- Connect the camera to the adaptor. Connect the camera using the STV-250 Stereo Video Cable. Connect the white plug to the white audio terminal Ⓛ (left). Connect the red plug to the red audio terminal Ⓡ (right). Connect the yellow plug to the yellow video terminal Ⓥ.
- Set the TV/VIDEO selector on the television to VIDEO.
- If you are connecting the camera to a VCR, set the input selector on the VCR to LINE.

UC-V100



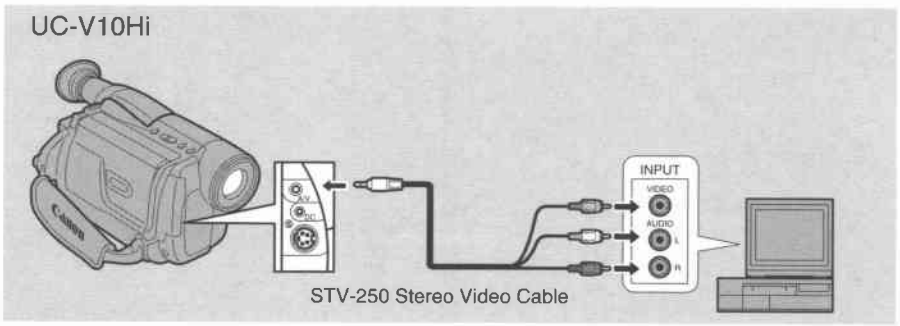
- Connect the PC-A10 SCART adaptor to the TV or VCR's SCART terminal.
- Connect the camera to the adaptor. Connect the camera using the C-250 AV Cable. Connect the white plug to the white audio terminal Ⓛ (left). Connect the yellow plug to the yellow video terminal Ⓥ.
- Set the TV/VIDEO selector on the television to VIDEO.
- If you are connecting the camera to a VCR, set the input selector on the VCR to LINE.

If your TV (or VCR) has an S-video input terminal (for UC-V10Hi)

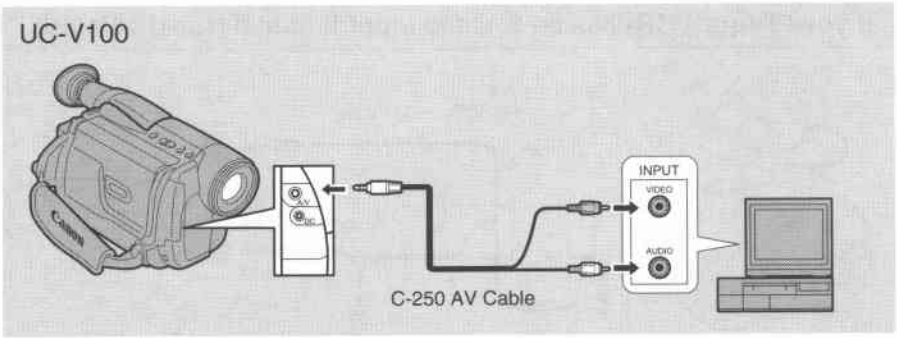


- Use the S-150 S-video Cable to connect the S-video terminal Ⓢ. Use the STV-250 Stereo Video Cable, to connect the A/V terminal. Connect the white plug to the white AUDIO terminal Ⓛ (left). Connect the red plug to the red AUDIO terminal Ⓡ (right). Do not connect the yellow plug.
- Set the TV/VIDEO selector on the television to VIDEO.
- If you are connecting the camera to a VCR, set the input selector on the VCR to LINE.

If your TV (or VCR) has audio/video input terminals



- Connect the camera using the STV-250 Stereo Video Cable, to connect the A/V terminal. Connect the white plug to the white audio terminal Ⓛ (left). Connect the red plug to the red audio terminal Ⓡ (right). Connect the yellow plug to the yellow video terminal Ⓥ.
- Set the TV/VIDEO selector on the television to VIDEO.
- If you are connecting the camera to a VCR, set the input selector on the VCR to LINE.



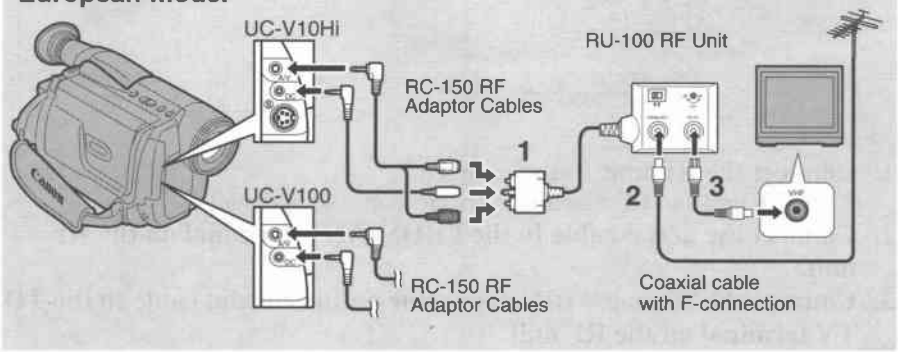
- Connect the camera using the C-250 AV Cable, to connent the A/V terminal. Connect the white plug to the white AUDIO terminal. Connect the yellow plug to the yellow VIDEO terminal.
- Set the TV/VIDEO selector on the television to VIDEO.
- If you are connecting the camera to a VCR, set the input selector on the VCR to LINE.

Note:

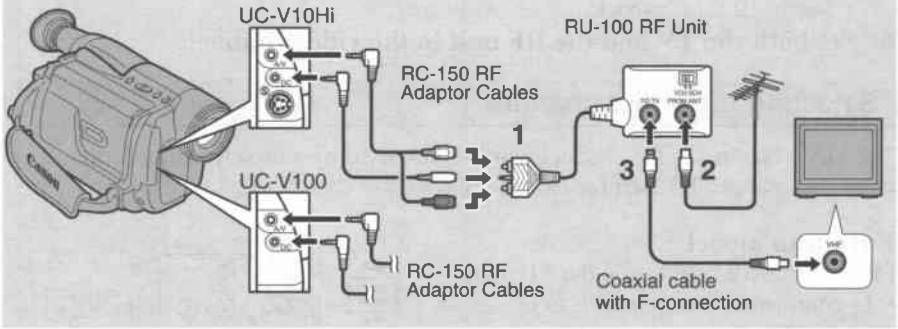
- If you are going to use the TV as a monitor while you are shooting, remember to keep the TV volume turned down as long as the camera's audio terminals are connected. If the sound from the TV speakers is picked up by the microphone, an unpleasant high-pitched squeal, called feedback, may be produced.

If your TV does not have audio/video terminals

European model



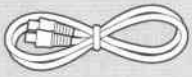
Australian model



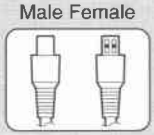
If your TV is already hooked up to a VCR, you can connect the camera to the VCR instead of the TV. Follow the instructions above.

To connect the camera directly to a TV which does not have audio/video terminals, you will need to use the optional RU-100 RF Unit together with the optional RC-150 RF cables. The soundtrack will be in mono.

Connecting the RF unit



Coaxial cable
with DIN-connectors



1. **Connect the RF unit to the camera.**
 - The RF unit and RF adaptor cables are available optionally.
2. **Connect the aerial cable to the FROM ANT. terminal on the RF unit.**
3. **Connect the "female" DIN-connector on the coaxial cable to the TO TV terminal on the RF unit.**
4. **Connect the "male" connector to the aerial input on the TV.**
5. **Turn the TV on, and start playback on the camera.**
 - See p. 19 for playback.
6. **Set both the TV and the RF unit to the video channel.**

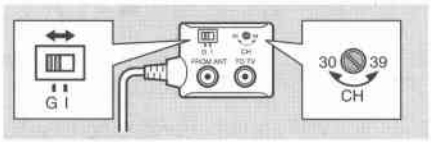
Selecting the video channel

The video channel is the channel which is not used by a broadcasting station in your area and can be used for cassette playback.

European model

First set the G/I selector on the RF unit.
- In continental Europe, set it to G.
- In the UK, Hong Kong and South Africa, set it to I.

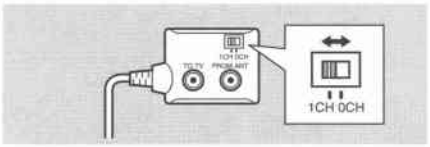
If it is not set properly, you will be able to see the picture, but not hear the sound.



Next, set the TV and the CH selector on the RF unit to the video channel. The selector is factory-set to channel 32. Adjust it by turning until the picture is clear.

Australian model

Set the TV and the RF unit to channel 0 or 1.

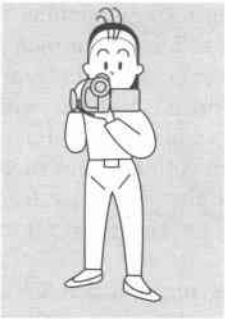


Note:
- Turn the camera off or disconnect it from the RF unit when you want to watch a broadcast programme. If you leave the camera connected and turned on, the RF unit will automatically select the camera signal instead of the broadcast signal.

Tips for Making Better Videos

Holding the camera

For maximum stability, place your right hand through the grip belt and keep your right elbow pressed against your body. Support the camera underneath with your left hand. With practice, you will be able to operate the controls by touch, without taking your eye off the action.



Using a tripod

To prevent any unwanted movement, you can mount the camera on a tripod, (or any flat surface at a suitable height.) and operate it with the wireless controller.

- When you are using a tripod, be careful not to leave the viewfinder exposed to bright sunlight or it may melt. (The light is concentrated by the viewfinder lens.)
- Make sure that the fastening screw of the tripod is no longer than 6 mm ($^1/_4$ inch), or it will damage the camera.

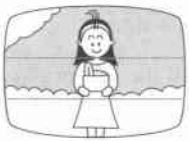


Composition

The most important element in the scene does not have to be in the center. For a more interesting picture, try to position your subject so it is slightly to one side. Leave some space on the side of the frame that the subject is facing or moving towards.



Don't cut off the top of the subject's head, and don't cut people off at the neck, hips or knees (move a little bit above or below).



Watch out for distracting objects in the background.



Picture angle

Instead of zooming while recording, try to choose your picture angle before you begin. A good way to tell a story with video is to begin with a long shot that establishes the situation, and then move in with medium shots and close-ups to show the details. Remember to change your viewpoint for each shot.



Long shot



Medium shot

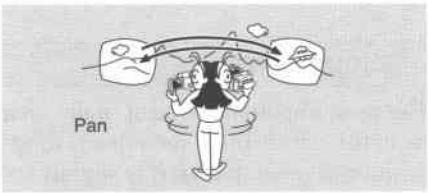


Close-up

Remember that any camera movement or change in picture angle should have a definite purpose. Avoid unnecessary or half-hearted movements.

Camera moves

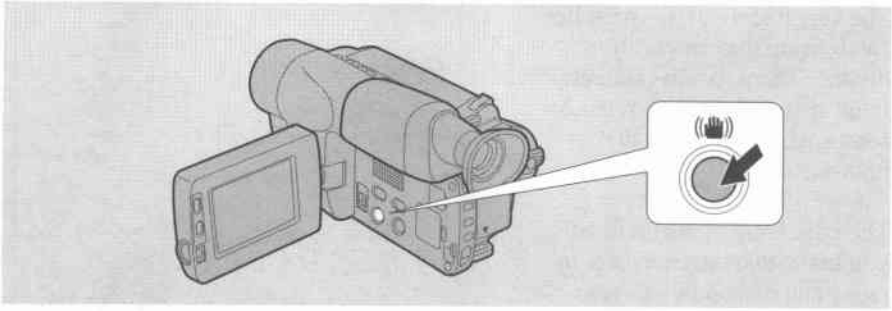
Use pans to record a landscape or follow a moving subject. Decide the area you want to cover and stand facing the end of your panning angle. Without moving your feet, turn your waist to the starting position. Start recording, and after a few seconds begin to turn slowly from the waist. Hold the final image for a few seconds before you stop recording.



Tilt the camera up to exaggerate the height of the subject. Tilt down from the top of a building, for example, as an introduction to subjects at the bottom.



Turning the Image Stabilizer On/Off



With most camcorders, even the slightest hand movements will be noticeable during telephoto recording. However, the UC-V10Hi/UC-V100's image stabilizer allows you to obtain steady recordings even at 16× or 72× magnification.

Before you start recording, open the LCD panel and push the (✋) button to turn the image stabilizer on or off.



- The ✋ mark appears in the display when the stabilizer is on.

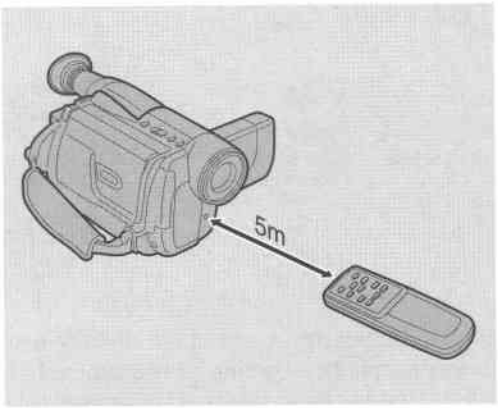
Notes:

- When the POWER switch is set to on, the image stabilizer is always on.
- The image stabilizer is designed to deal with a normal degree of camera shake.
- Keep the image stabilizer turned off when the camera is mounted on a tripod.
- The image stabilizer is not as effective as usual when the optional tele-converter is attached.

Using the Wireless Controller

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The supplied wireless controller can operate the camera from a distance of up to 5 m (16 feet). Point it at the camera's remote sensor while you press the buttons.



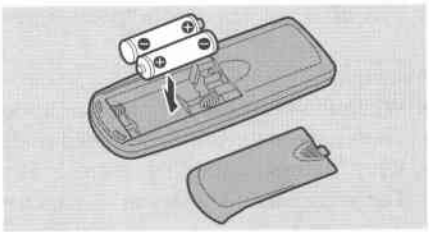
The tally lamp lights up to let you know that the camera is in range and responding to your commands.

There are two functions which can only be operated using the wireless controller:

- Tape return (p.21)
- ON-screen displays (p. 75)

Inserting batteries

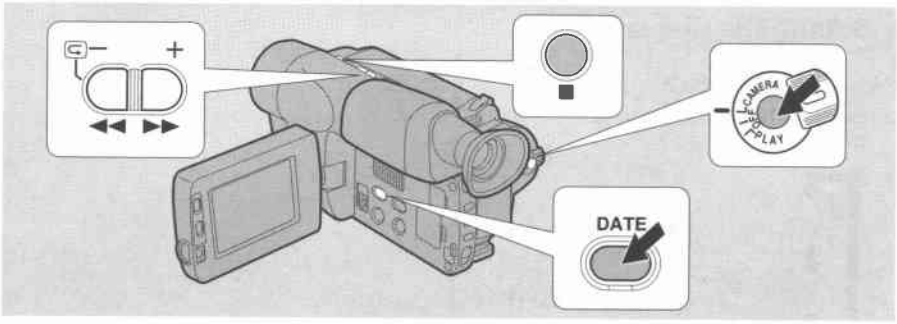
Insert two AA batteries, following the ⊕ and ⊖ markings. Be careful not to reverse the polarity of the batteries.



Notes:

- When using the wireless controller in brightly lit places or outdoors, the effective range will be less.
- The camera may have difficulty picking up the remote control signals at extremely close range.
- Do not leave the controller exposed to direct sunlight, or in hot or humid places.
- When the batteries run out, replace them both together.

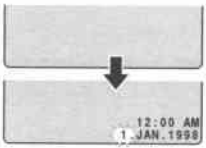
Setting the Date and Time



The date and/or time display appears in the display when you press the DATE button. If you start recording now, it will be superimposed on the scene.

Set the date and time display when you first start using your camera. As long as you have installed the backup battery (p. 59), the camera's internal clock will continue to work even when the main power source is removed.

1. **Put the camera in record pause mode.**
2. **Press and hold the DATE button.**
 - The day display starts to flash.



3. **Press the + button or the – button to change the day. Press the ■ (stop) button to move to another part of the display.**
 - Press and hold the + or – button to scan a day quickly.
 - Once you move from the day, the next part of the display starts flashing.
4. **Set the months, years, hours and minutes in the same way.**
5. **Press the DATE button when finished, and to start the clock.**
 - You can record the date and time automatically.

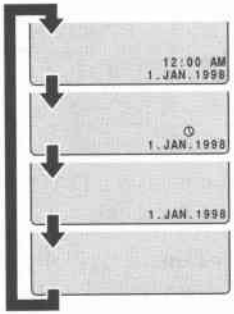
Notes:

- The date can be set to any year between 1998 and 2099.
- When you want to change a part of the date and time, press and hold the DATE button for 3 seconds. The date and time appears in the display and the day display starts to flash.

E

Setting the display style

You can choose the display style of the date and time.
Press the DATE button to set the display style.



Date and Time

Auto date

Date

(Blank)

- Once the display style of the date and the time are set, they will be saved even if the power switch is changed.
- Pressing the start/stop button and then setting PAUSE before pressing the DATE button is recommended when you want to change the date and the time or turn the date and the time off during operation.

About the auto date recording

The date can be automatically recorded for ten seconds after starting a day's recording.

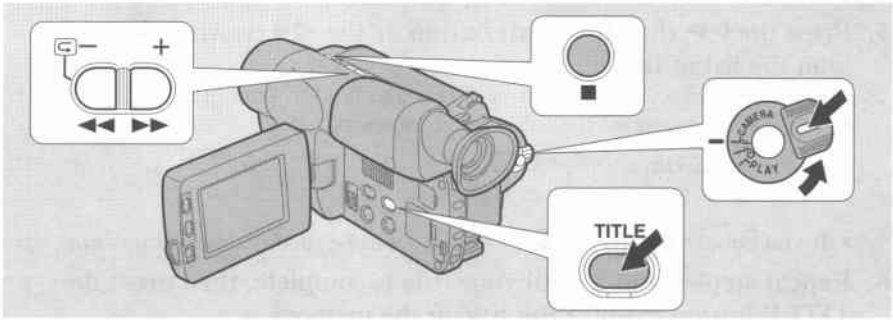
1. Put the camera in record pause mode.

2. Press the DATE button to set auto date recoring.
- The mark "🕓" and date appears in the display.

3. Press the start/stop button.
- The 🕓 and date disappear after ten seconds the recording starts.

Note:
- Auto date is re-recorded in the following cases.
 - – When that day's first recording was less than 10 seconds.
 - – When the cassette has been replaced.
 - – When the "🕓" is displayed again after the display style is switched.
 - – When right after starting recording; the Start/Stop button is pressed, set to Pause and recording then started again.
 - – When the date was changed during recording (no date display), or when that date was not recorded but recording was started again after having quit recording with Pause, etc.

Titles



You can write your own titles and store them in the camera's memory in order to add them to your recordings.

The title appears in the display when you press the TITLE button. If you start recording now, it will be superimposed on the scene. If you start playback now, it will appear on the scene.

Press the button again to cancel the display. If it does not appear in the display, it will not be recorded.

Writing a title

Enter your title in the camera's memory before you start recording. Remember to install the backup battery first (see p. 59).
The title can be one or two lines of up to 16 characters each.



1. **Press down and turn the POWER switch to CAMERA or PLAY.**
2. **Open the LCD screen.**
3. **Press the TITLE button.**
 - "■" flashs in the display.
4. **Press the ■ (stop) button to move the cursor to the point where you want to start the title.**
 - Press once to move the cursor one space at a time. Press and hold to move it quickly.
 - If you have already entered a title in the memory, it will be displayed in the display.
 - The first dot (or character) flashes to show where the cursor (the insertion point) is located.

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5. **Press the ▶▶ (fast forward) button or the ◀◀ (rewind) button to scan the list of title characters.**
 - Press once to scan one at a time. Press and hold to scan quickly.
 - You can choose from the following characters:



 - If you choose the mark " ■ " , nothing will be recorded at this position.
6. **Repeat steps 4 and 5 until your title is complete, then press the TITLE button to enter the title in the memory.**
 - Press the TITLE button again to make the title disappear.

Notes:
- If it takes you more than about five minutes to write a title, the camera may turn itself off automatically. This can be avoided by removing the cassette.
- Once it has been set, the title is saved in the memory even if the power switch is changed.

Changing the title

Press and hold the TITLE button for about three seconds to the title appears and the first dot (or character) flashes. Repeat steps 4 to 6 that your title is complete, it is entered in the memory.

Displaying the title in the PLAY mode

You can made appear/disappear the title in the display whenever pressing the TITLE button in the PLAY. When dubbing your tape to the VCR, you can add the title to your recordings.

Setting a preset title

Ten titles are preset to this camera. You can select from these to imprint on pictures.

1. **Slide the POWER switch to CAMERA or PLAY.**
2. **Press and hold the TITLE button for about three seconds.**
 - The title that you wrote appears and the first dot (or character) flashes.
3. **Press the ▶ (play) button.**
 - The title display stored appears.
4. **Press the ▶▶ (fast forward) button or ◀◀ (rewind) button to select the title.**



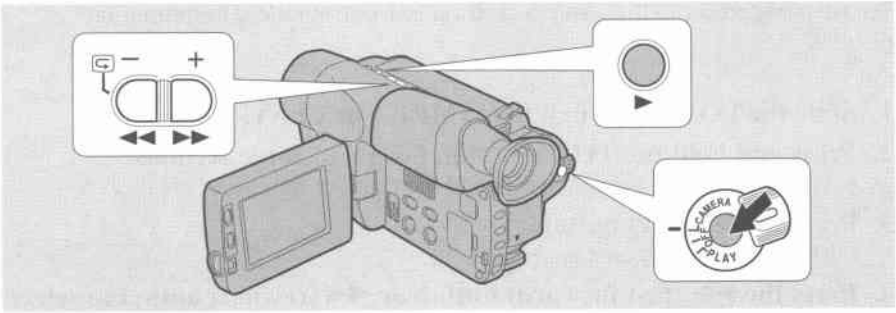
5. **Press the TITLE button to enter the title in the memory.**
 - Press the TITLE button again to make the title disappear.

Note :

- Once the title has been selected with Step 4, while the recording has been paused, it will be stored in the tape even if the start/stop button is pressed.

Searching and Reviewing While Recording

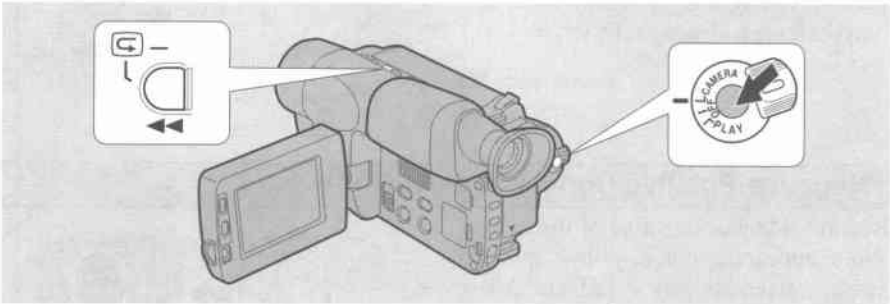
Record search



When the camera is in record pause mode, you can use record search to play the tape forwards or backwards to find the point where you want to start or restart recording. This is useful when you want to add a new scene to a previously used cassette. By using record search, you can ensure a smooth, join between the new scene and the old one.

1. **Make sure the camera is in record pause mode.**
2. **Press and hold the ▶ (play) button, + (rec search) button or – (rec search) button while you check the picture in the display.**
 - The ▶ (play) button plays the recording normal playback. The + button plays the recording forwards and the – button plays it backwards at about 3 times fast forward speed.
3. **Release the button when you find the point where you want to start recording.**
 - The camera returns to record pause mode.

Record review



When the camera is in record pause mode, you can use record review to play back the last few seconds of your recording and then return automatically to record pause mode. You can quickly make sure that a scene has recorded properly and then go on to shoot the next scene.

1. **Make sure the camera is in record pause mode.**
2. **Press the ⏪ (rec review) button.**
 - The camera rewinds the tape, plays back the last few seconds, and returns to record pause mode.

Note:

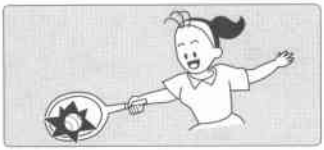
- Noise may appear on the screen during record search and record review.

Using the Digital Effects

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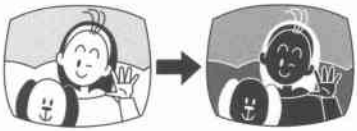
16:9

Produces images in the 16:9 format for playback on widescrees TVs.



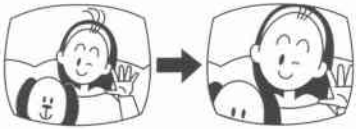
Negative-Positive Conversion (NEG.)

Records a colour negative of the image. White appears as black, yellow appears as blue, green appears as red, etc. Also convert a negative image to an ordinary positive one.



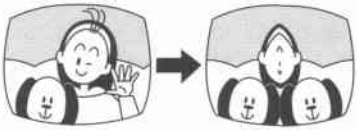
Extra Long Digital Zoom (D. ZOOM2)

Digital high-magnification zoom increases the optical 16× zoom to up to 160×. Operate this by the zoom lever.



Mirror (MIRROR)

The image will be as if you have placed a mirror in the middle of the screen.



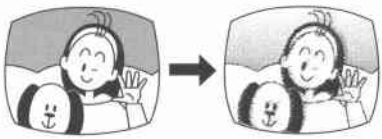
Mosaic (MOSAIC)

Enlarges various pixels. The image is made up of noticeable squares of color, giving a mosaic-like effect.



Art (ART)

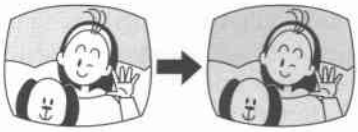
Adds a paint-like effect, called solarization, to the image.



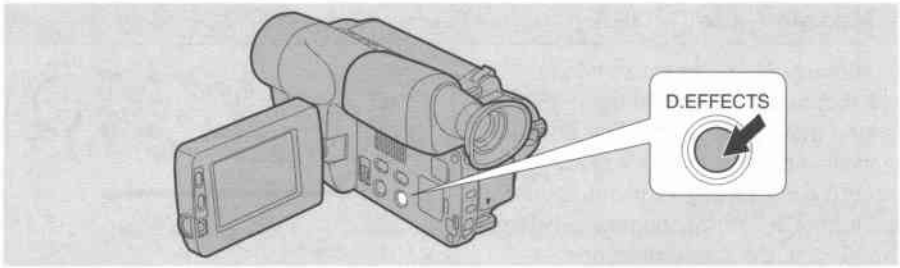
Sepia (SEPIA)

Plays back a monochrome image with a sepia tint.

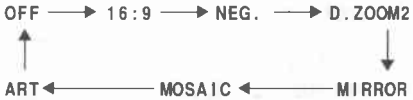
- This feature can be used only during playback



Selecting the effect



1. **Put the camera in record pause mode.**
2. **Press the D. EFFECTS button to choose one of the digital effects you want.**
 - The name of the digital effect that you have chosen appears in the display.
 - Each time you press the button, the display changes:



 - To turn digital effects off completely, press the D. EFFECTS button until the name of the digital effects disappears from the display.
 - When you use the MIRROR or MOSAIC, the picture being recorded extends horizontally and narrows somewhat.
 - MIRROR and MOSAIC cannot be used simultaneously with digital zoom, close-up and image stabilizer.
 - First set the recording in pause before changing the digital effect.

Notes:

- You can use the 16:9, art and sepia effects during playback or playback in pause. Press the D. EFFECTS button to select the effect.



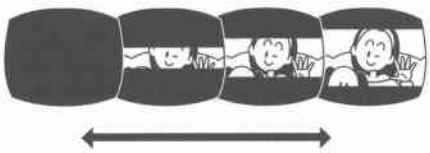
- If the digital effect is used in playback mode, you can see the effect, however it does not affect the recorded tape. When used during video editing, you can record it onto the dubbed tape.

Using the Digital Faders

E

Horizontal Wipe

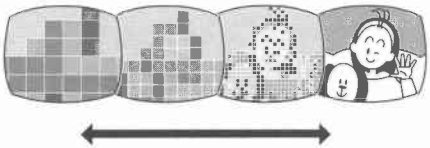
When you start recording, the picture begins as a thin horizontal line in the center of the screen which gradually expands upwards and downwards until it fills the whole screen. When you end a scene, the image is wiped from the top and bottom of the screen.



Mosaic Fade (MOS.F)

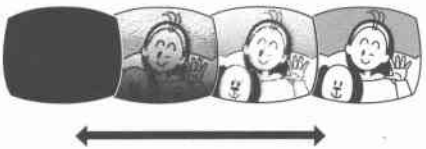
A mosaic pattern appears and gets smaller and smaller, and the image and sound that you are recording gradually appear. The picture that you are recording gradually turns into a mosaic pattern. This mosaic pattern gets larger and larger, the sound disappear.

- The picture being recorded extends horizontally and narrows somewhat during fade-in and fade-out.



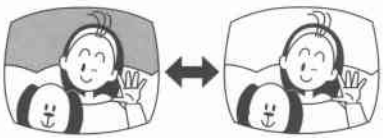
Art Fade (ART.F)

The picture that you are recording gradually turns into a screen like an illustration, and the image and sound disappear. The picture starts as this illustration-like colour-effect screen, and the image and sound that you are recording gradually appear.

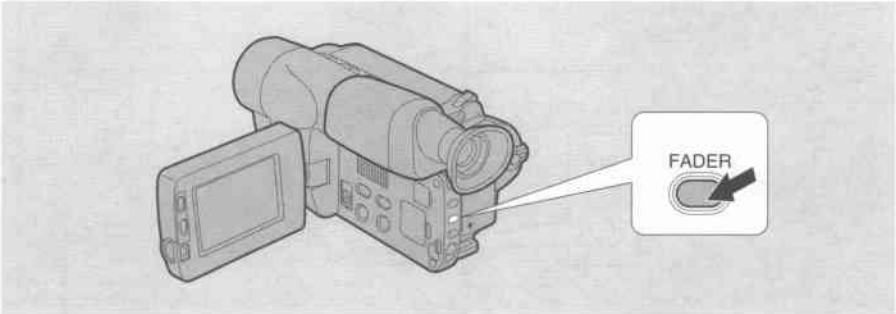


Black & White (B/W)

The colour display gradually becomes black and white and the audio turns off during recording (REC). During record pause, colour gradually appears in the black and white display and audio can be heard.



Selecting the fader



1. **Put the camera in record pause mode.**
2. **Press the FADER button to choose one of the digital faders you want.**
 - The name of the digital fader that you have chosen appears in the display.
 - Each time you press the button, the display changes:



 - To turn digital faders off completely, press the FADER button until the name of the digital faders disappears from the display.
3. **Start or stop recording.**
 - The recording will start or stop with the selected fade.
 - Sound and image fade together.
 - If you wish to use the fade again, press the FADER button again.

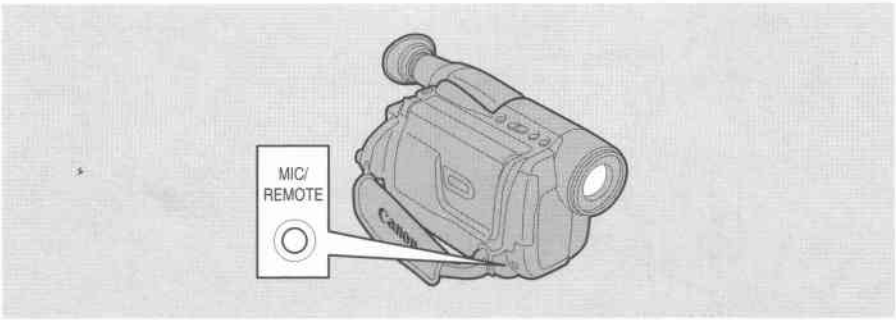
Notes:

- If you press the D.EFFECTS button after selected the fade, the name of the fade disappears and cannot use the fade.
- You cannot use the mosaic fade if you have turned on the digital zoom and close up.
- The image stabilizer cannot be used simultaneously with the mosaic fade (the mark disappears from the display).

Audio Recording

E

External microphone



For greater creative control over audio recording, you can connect an external microphone to the camera via the MIC terminal.

Notes:

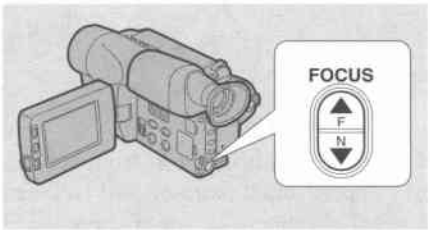
- You need the optional SA-1 Adaptor Bracket to connect the external microphone to the camera.
 - You cannot open or close the LCD panel, when the Adaptor Bracket is attached.
- Use the stereo microphone with the UC-V10Hi, the monaural microphone with the UC-V100.
 - Make sure that you use the microphone of 600Ω impedance.

Adjusting Focus Manually

The camera can focus automatically. All you have to do is point it, and whatever is in the centre of the display will usually be in sharp focus. If it does not seem to be focusing well, it may be because the subject is not suitable for autofocus. (p. 65)

Focus lock

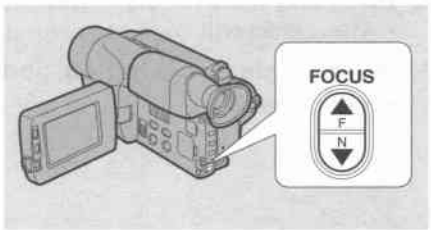
Press two FOCUS buttons (N and F) simultaneously to turn off autofocus. The focus remains locked at the point set by autofocus.
(M. FOCUS appears in the display.)
You can now adjust the focus manually.
Press two FOCUS buttons (N and F) again when you want to return to autofocus.



Manual focus

Use two FOCUS buttons to set the focus.

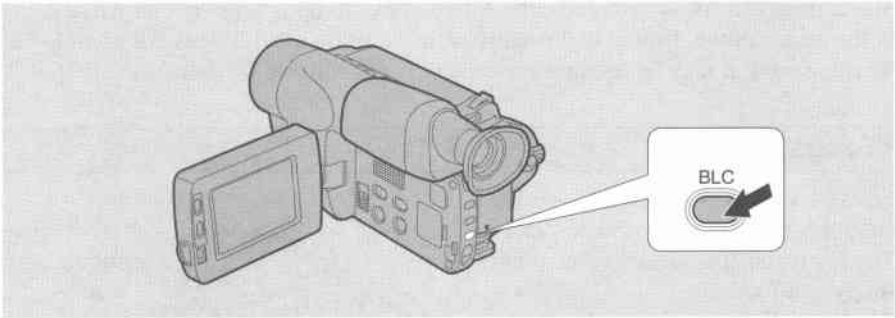
- Press and hold the F button (towards ∞) to move the focus further away.
- Press and hold the N button to bring the focus nearer.



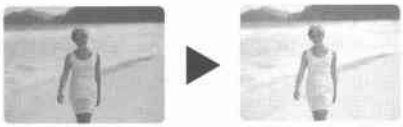
Notes:

- If you zoom in on your subject after turning off autofocus, it may not stay in focus. It is generally best to adjust the zoom first, and then the focus.
- The manual focus setting is canceled if you change the position of the POWER switch.

Backlight Compensation

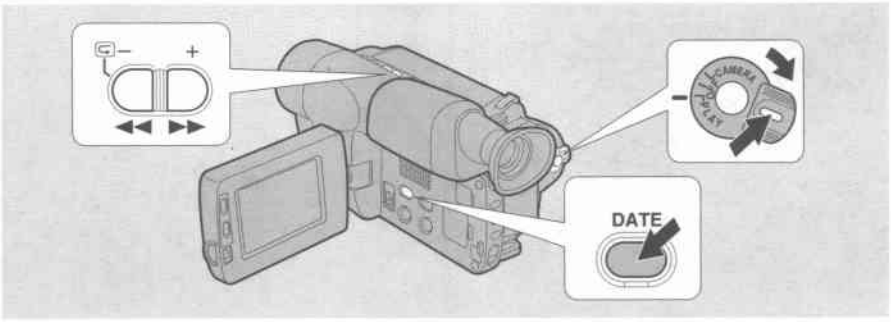


If the subject is brightly lit from behind, it may appear under-exposed and lacking in detail. To compensate for this, use the BLC function.



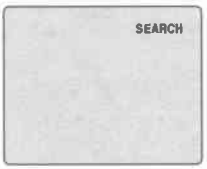
1. **Set the POWER switch to CAMERA.**
2. **Press and hold the BLC button.**
 - The camera will compensate for this as long as you hold the key down.
3. **Press the start/stop button, and release the key when it is no longer needed.**

Searching the Tape (Date Search)



You can search for the recording start or end position of last recorded day anywhere on a tape.

1. **Press down and turn the POWER switch to PLAY.**
2. **Press the DATE button.**
 - SEARCH is shown in the display.

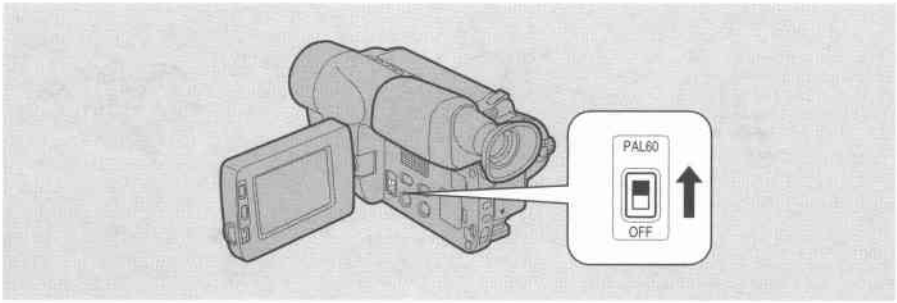


3. **To search for the recording start position of last recorded date, press the ◀◀ (rewind) button. To search for the recording end position, press the ▶▶ (fast forward) button.**
 - ◀◀ SEARCH appears in the display when push the ◀◀ (rewind) button and SEARCH ▶▶ appears when push the ▶▶ (fast forward) button.
 - The tape stops automatically at the recording start or end position.
 - The screen returns to the counter display.

Notes:

- When the date was changed during recording, (when recording continued after 12 o'clock at night) the recording start position sets to the previous day's filming start position.
- Do any of the following to stop the on-going date search operation.
 – Push the ▶, ■, EJECT ⏏ button.
 – Turn the power switch to OFF.
 – Push the DATE button.
- You cannot use the date search if :
 – the cassette was removed after finishing filming (recording).
 – there is no lithium button battery in the video camera.
 – the tape was recorded using a video camera other than this camcorder.
- Even if you have not recorded the date, you can use the date search.
- A date cannot be identified if the total recording time on that day was less than 30 seconds.

Using the PAL60 System



This camcorder uses the PAL system for viewing TV broadcasts.
You can view the NTSC tape with the camera when connected to a television operating on 60Hz.

- Check whether the television can be set in PAL60 mode.
- This function can only be used for playback.

1. Connect the camera to TV.
- See "Connections for Playback on a TV Screen" on p.22.

2. Turn the TV on and set it in PAL60 mode.
- See your TV instruction manual for details.

3. Load the NTSC cassette.

4. Press down and turn the POWER switch to PLAY.

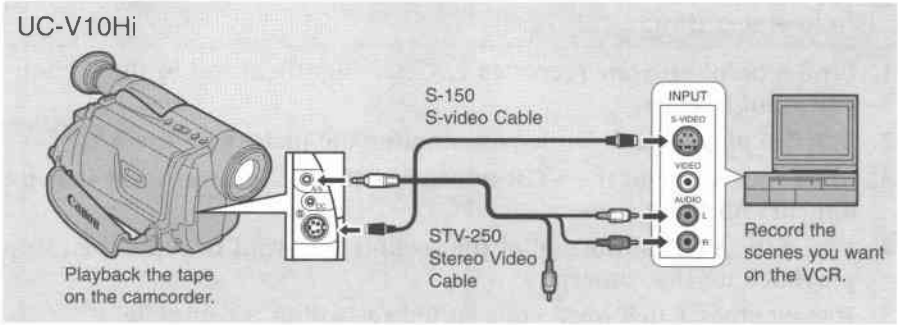
5. Slide the PAL60 switch to PAL60.
- PAL60 appears in the display.

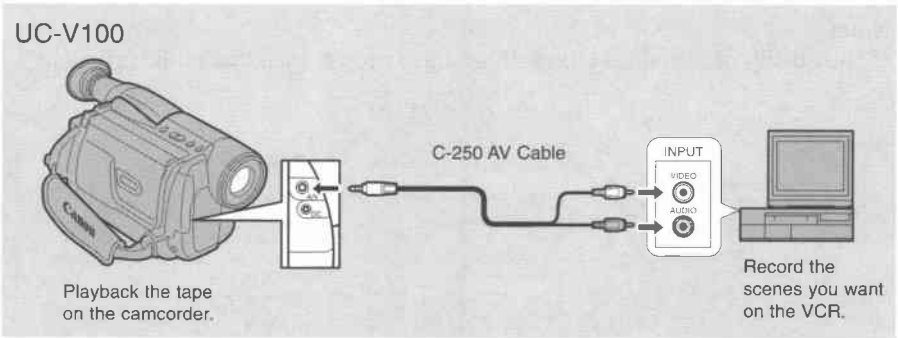


6. Push the ▶ (play) button.

Notes:
- Refer to your TV instruction manual to confirm whether your television can be set in PAL60 mode.
- You cannot view the image when a cassette recorded by ordinary PAL system is played back with PAL60 function on.
- When a cassette recorded in NTSC format is played back in your camcorder in PAL60 mode, the picture in the viewfinder will not appear normally.
- The camera sometimes might not operate correctly, due to the condition of the recorded cassette, even if it switches properly to PAL60.
- You cannot use the PAL60 system when the RF unit is connected your camera. If necessary, connect the camera to the VCR.

Editing to a VCR





By connecting the camera to another VCR, you can edit your recordings in order to remove unwanted scenes — or combine different shots to create your own video productions.

Preparations

1. **Connect the camera to the VCR.**
 - See "Connections for Playback on a TV Screen" on p. 22.
2. **Prepare the TV and VCR.**
 - Turn on the TV and set it to the video channel, or set the TV/VIDEO selector to VIDEO.
 - Turn on the VCR, and set its input selector to LINE. Load a blank cassette, and put the VCR in record pause mode.
 - See your TV and VCR instruction manuals for details.
3. **Turn the camera's POWER switch to PLAY, and load your recorded cassette.**

E

Basic Recording

1. **Find a point on your recorded cassette slightly ahead of the section you want to copy.**
2. **Start to play it back while you monitor the picture on the TV.**
3. **Start recording on the VCR as soon as the section you want to copy appears on the screen.**
4. **Pause the VCR at the end of the section you want to copy, then stop playback on the camera.**
5. **Repeat steps 1 to 4 until your edited recording is complete.**

Note:

- The quality of the edited tape will be slightly lower than that of the original.

About the Editing Function

You can program up to four scenes so that they are automatically dubbed and edited. The optional editing remote controller ED-50 is required.

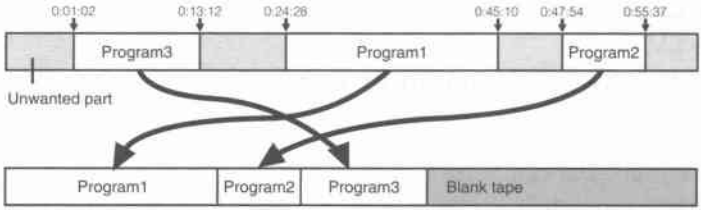
E

Basic Procedure

1. **Connect the camera to the VCR. (p. 51)**
2. **Select the remote cotrol signal on the VCR. (p. 52)**
3. **Select the scene to edit, and program for automatic editing. (p. 53)**
4. **Start editing. (p. 54)**

(Example)

8mm tape before editing

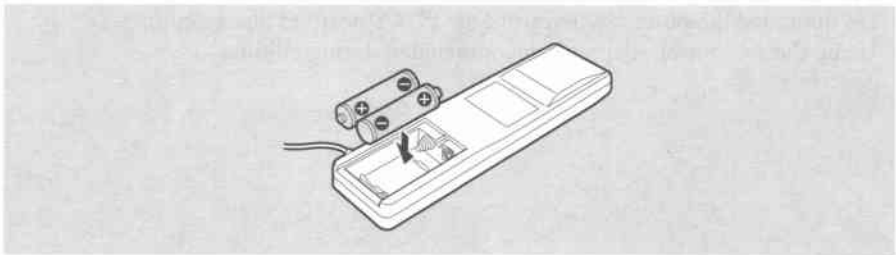


Edited tape on VCR

• The quality of the edited tape will be slightly lower than that of the original when the tape is dubbed or edited.

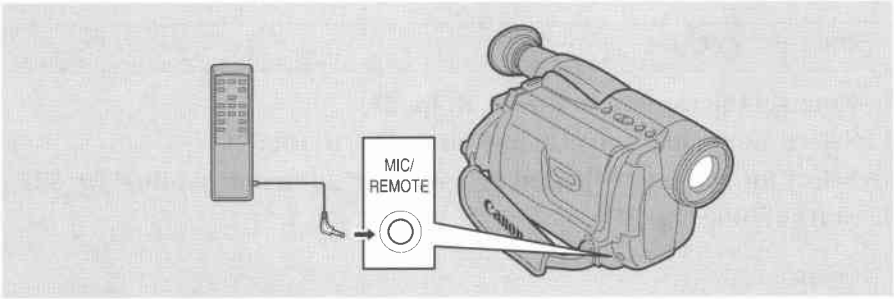
• The start and stop positions of the scene to edit may vary slightly depending on the type VCR you have.

Inserting the Battery into the Editing Remote Controller



• Remove the battery cover by pressing down on it, and insert two AA dry cells making sure that their + – ends are facing the correct way.
• Connect the editing remote controller to the camera. There are the buttons on the editing remote controller function in the same way as the buttons on the wireless remote controller provided with your camera.

Preparations



1. **Connect the camera to the VCR.**
2. **Turn on the TV.**
3. **Set the TV's TV/VIDEO selector to VIDEO.**
4. **Turn on the VCR.**
 - Turn unused video equipment off.
 - Remove the cassette if it is inserted to VCR.
5. **Set the VCR's input selector to LINE.**
6. **Connect the editing remote controller to the camera.**
7. **Press down and turn the POWER switch to PLAY.**

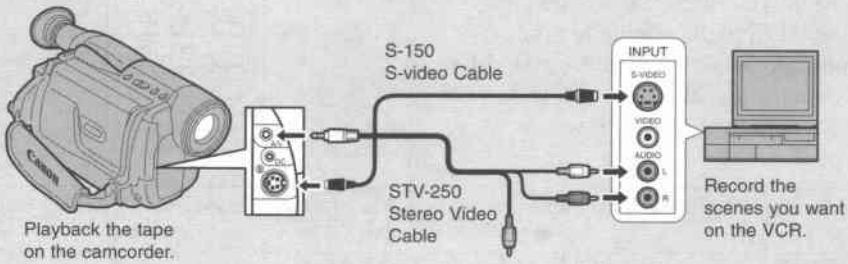
Notes:

- Do not remove the connecting cable of the optional ED-50 editing remote controller once the editing remote controller has been connected to the video camera.
- Do not move the power switch from the PLAY position during editing.
- Using the AC power adaptor is recommended during editing.

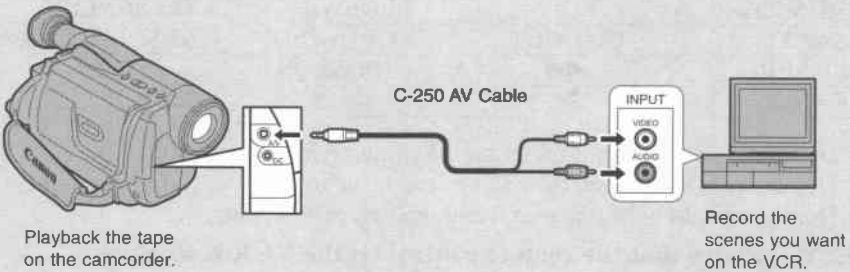
Connecting the Camera to the VCR

Connect the audio/video output cables to the camera and VCR (p. 22). Also, see your VCR instruction manual.

UC-V10Hi

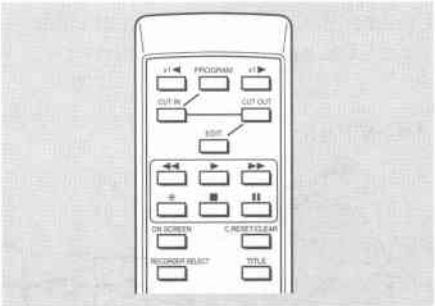


UC-V100



Selecting VCR Signals

The editing remote controller emits infra-red signals to operate the VCR. The signal that is emitted varies according to the manufacturer and the type of VCR used. Set the signal emitted from the editing remote controller so that it matches your VCR. Select the signal matched to your VCR referring to the table below.



Manufacture	Button Used for Setting Signal	Manufacture	Button Used for Setting Signal
HITACHI	×1 ◀	JVC	▶▶
SONY	PROGRAM	AKAI	✳
PANASONIC	×1 ▶	GOLDSTAR	■
TOSHIBA	CUT IN	PHILIPS	❚❚
MITSUBISHI	EDIT	LOEWE	ON SCREEN
SANYO	CUT OUT	GRUNDIG	C.RESET/CLEAR
SHARP	◀◀	THOMSON	TITLE
CANON	▶		

- Be sure to point the transmitter on the editing remote controller at the VCR.
- Do not cross in between the editing remote control and VCR during editing. Doing so might break the signal and interfere with editing.

1. **Make sure that the remote control on the VCR is working normally.**
2. **Load a blank tape into the VCR, and put the VCR in the record pause mode.**
3. **Press the button used for setting the manufacturer's signal while pressing the RECORDER SELECT button on the editing remote controller.**
 - Select the signal matched to your VCR.
 - Press the buttons on the editing remote controller at the sensor on the VCR.
 - When the VCR is selected properly, the channel display on the VCR changes.
 - If you cannot set the signal even though you have selected the manufacture's signal of your VCR, try changing the setting of the remote control signal mode of the VCR. (See your VCR instruction manual.)

Notes:

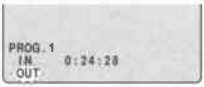
- Only VCRs compatible with the remote control can be used.
- If you cannot set the signal, then the camera cannot edit with your VCR.

Programming the Scenes to Edit

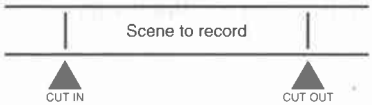
1. **Load the cassette to be edited into the camera, and rewind the tape.**
2. **Press the PROGRAM button on the editing remote controller.**
 - "PROG.1" appears in the display, and "IN" flashes.



3. **Press the ▶ button on the editing remote controller.**
4. **Press the CUT IN button at the beginning of the scene to edit.**
 - This registers the cut in position.
 - "OUT" flashes.



 - The start of the scene to program is called "cut in."
5. **Press the CUT OUT button at the end of the scene.**
 - This registers the cut out position.
 - "PROG.2" appears in the display.
 - The end of the scene to program is called "cut out."
 - You can repeat steps 4 and 5 to program up to four scenes.



 - You can search for the start and end of the scenes to edit more easily using the fast forward and rewind buttons.

During Programming

- Only a tape counter value larger than cut in can be set for cut out.
- Programming is not possible if the interval between cut in and cut out is two seconds or shorter.

Editing

1. **Set the VCR to the recording pause mode.**
 - If the recording pause mode continues for about five minutes, the VCR enters the stop mode. This time varies according to the VCR you are using.
2. **Press the EDIT button on the editing remote controller.**
 - The camera automatically searches the cut in of program 1 and starts playback.
 - The VCR starts recording.
 - During editing, make sure that the editing remote controller stays pointed at the VCR.

When You Have Finished Editing

- The camera automatically stops.
- The VCR automatically enters the pause mode.

How To Carry Out The Following

Adjusting the Cut In/Cut Out Positions

- If you press the ▶ or ❚❚ buttons to set the camcorder to the pause mode after you have set the cut in and cut out positions, you can fine-adjust the cut in and cut out positions by the ×1◀ or ×1▶ buttons.

When You Have Mistakenly Set the Cut In/Cut Out Positions

- To correct the cut in/cut out positions after they have been set, press the C.RESET/CLEAR button.

Canceling the Program

- Press the EDIT button. If you press the EDIT button again, you can start programming from the beginning again.

When You Have Finished Editing the Program

- When you have finished editing the program, press the ■ (stop) button on the VCR.

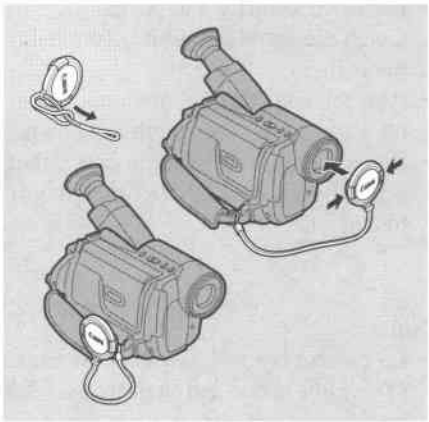
To Ensure Editing

- Do not block the transmitter on the editing remote control and the VCR. Doing so might break the infra-red signal and prevent the VCR from being operated. When another remote control, for example, for the TV is operated, the infra-red signal might interfere with each other and prevent the VCR from being operated properly.
- Do not remove 8mm cassettes that are used for editing during editing. This will cancel the program that was set.

Preparing the Camera

Prepare the lens cap

- Attach the cord to the lens cap, and pass the grip belt through the loop on the cord.
- Hook the lens cap on to the grip belt while you are recording, and place it over the lens when you hae finished.



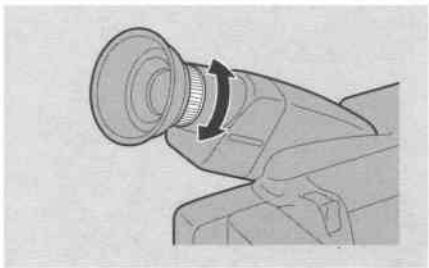
Fasten the grip belt

- Release the Velcro fastening and hold the camera with your right hand while you adjust the belt with your left.



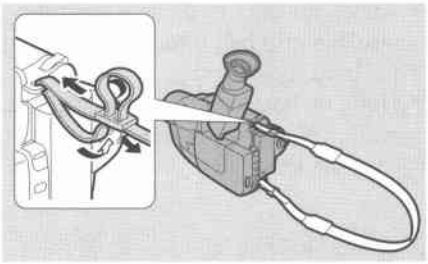
Adjust the viewfinder

- Turn the camera on, raise the viewfinder to the vertical position and turn the viewfinder focusing wheel until the viewfinder diplays are clearly focused.
- The viewfinder rotates through 70° to give a choice of shooting positions.



Attach the shoulder strap

- For extra security and portability, attach the shoulder strap before using the camera.
- Pass the ends through the attachment bars and adjust the length as shown.
- Be sure to test the strap to check that it is properly attached before using it to carry the camera.



Note:

- Be careful not to leave the viewfinder exposed to bright sunlight, or it will melt. (The light is concentrated by the viewfinder lens.) You may be able to move the viewfinder out of direct sunlight by pushing it upright, or by moving it back down to horizontal.

Notes on Using the Batteries

Charging and recording times

E

Time needs for full recharge

BP-914	180 min.
BP-915	180 min.
BP-927	250 min.
BP-930	260 min.
BP-930R	230 min.
BP-941	420 min.

Maximum recording time

	UC-V10Hi		UC-V100	
Battery pack	LCD screen on	LCD screen off	LCD screen on	LCD screen off
BP-914	95 min.	120 min.	100 min.	130 min.
BP-915	100 min.	135 min.	105 min.	140 min.
BP-927	190 min.	250 min.	200 min.	260 min.
BP-930	210 min.	275 min.	220 min.	290 min.
BP-930R	210 min.	275 min.	220 min.	290 min.
BP-941	285 min.	370 min.	295 min.	390 min.

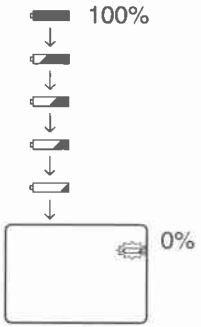
* The BP-915 Battery Pack is supplied and the other BP-900 series Battery Packs is optional.

- When you use the optional CH-900 Dual Battery Charger/Holder with two battery packs attached, the maximum recording time will be almost doubled. For example, when you attach the two BP-941, the UC-V10Hi can record up to 12 hours and the UC-V100 up to 13 hours continuously.
- These times vary — the safest policy is always to have two or three times as many battery packs as you think you will need.
- You will get more recording time if you turn the camera off between shots, instead of leaving it in record pause mode.
- Recording time will be shorter than usual at low temperatures. You can use the battery pack between 0° to 40°C (32° and 104°F), but it works best between 10° to 30°C (50° and 86°F). At locations with extremely low temperatures such as ski resorts, a warning display might sometimes appear for about 5 minutes after starting use.
- If the battery pack starts to give you much less recording time than usual, it has reached the end of its life and must be replaced.

E

How much power is left?

The indicator in the display shows you approximately how much charge the battery pack has left (when a battery pack is directly attached to the camera):



Notes:

- The mark starts blinking in the display when the power is completely exhausted.
- The indicator is not constant — different levels will be shown when you subject the battery pack and camcorder to different conditions.

Informing the remaining time of the battery pack

You can know the remaining time of the battery pack, when attach to the camera the BP-930R battery pack (available soon). The remaining time shows you by minute in the display.



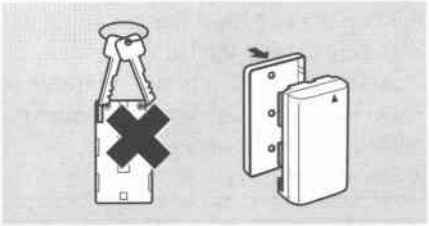
When to recharge

You can recharge a lithium ion battery pack whenever it is convenient. Unlike a conventional battery pack, it does not have to be fully discharged first. However, as the battery pack will naturally discharge itself over time, it is best to charge it the same day you plan to use it, or the day before.

Taking care of the battery pack

Always attach the terminal cover.

- Do not allow any metal objects to touch the terminals, as this can cause a short circuit and damage the battery pack. Attach the terminal cover whenever the battery pack is not being used.



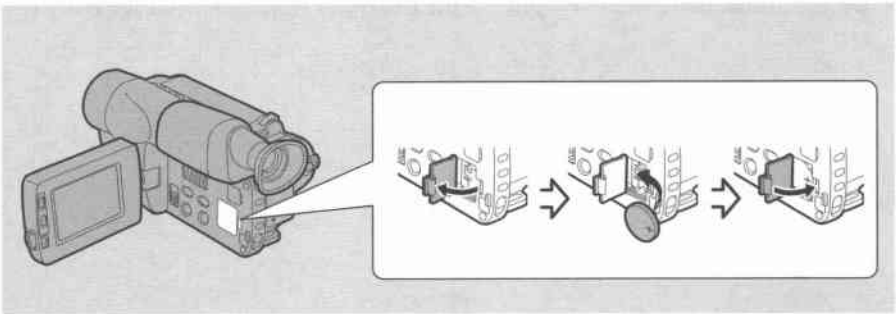
Keep the terminals clean.

- The camera, adaptor or battery pack will not work properly if the terminals are dirty. Check them before use, and wipe them with a dry cloth or tissue if necessary.

Storing the battery pack.

- If you do not use a battery pack for a period of more than a few months any remaining charge may cause damage to the battery pack, and reduce usage time. To prevent damage therefore, aim to use a battery pack's complete charge before storage.

Installing the backup battery



Open the battery cover from the side of the camera, and insert the CR2025 lithium battery with the + side facing outwards. Close the cover back into place.
This backup battery allows the camera to remember the date and time and other settings when the main power source is removed. It has a life span of about a year.

E

DANGER!

Treat the battery pack with care.

- Keep it away from fire (or it might explode).
- Do not expose the battery pack to temperatures greater than 60°C (140°F). Do not leave it near a heater, or inside a car in hot weather, for example.
- Do not try to disassemble or modify it.
- Do not drop or knock it.
- Do not get it wet.

WARNING!

- The battery used in this device may present a fire or chemical burn hazard if mistreated. Do not recharge, disassemble, heat above 100°C (212°F) or incinerate.
- Replace the battery with a Sony, Sanyo or Panasonic CR2025, or Duracell DL2025. Use of another battery may present a risk of fire or explosion.
- The used battery should be handed back to the supplies for safe disposal.

Cautions:

- Do not pick up the battery using tweezers or other metal tools—this will cause a short circuit.
- Wipe the battery with a clean, dry cloth to ensure proper contact.
- Keep the battery pack out of reach of children—if it is swallowed, contact a physician immediately, as the battery case may break down and the battery fluids damage the stomach and intestines.
- Do not disassemble, heat, or immerse the battery in water, to avoid the risk of explosion.

Maintenance

Cautions

Avoid high temperatures and high humidity.
- Do not leave the camera inside a car in hot weather, for example.
- Be careful of heat radiating from video lighting equipment.
- Do not take the camera into a humid room.

Avoid sudden changes in temperature.
- If you take the camera from a cold place to a warm place, condensation may form on the lens and internal parts (see p. 63).

Do not point the lens or viewfinder at strong light sources.
- Never point it at the sun, and do not leave it aimed at a bright subject.
- Be especially careful when leaving the camera on a tripod.

Avoid magnetic or electric fields.
- Do not use the camera close to TV transmitters, portable communication devices or other sources of electric or magnetic radiation. They may cause picture interference, or permanently damage the camera.

Do not expose the camera to water.
- Cover the camera when you are recording in rain or mist.
- There is a risk of electric shock if water gets inside the camera — contact qualified service personnel as soon as possible.

Protect the lens.
- Sand and dust can damage the lens — be especially careful on windy days.

Handle the camera gently.
- Vibration or shock can cause damage.
- Do not use the viewfinder or LCD panel as a carrying handle.

Do not disassemble the camera.
- This is very dangerous as there is a risk of electric shock — if the camera does not function properly, take it to qualified service personnel.

Storage

If you do not intend to use the camera for some time, store it in an area which is free of dust and moisture, and where the temperature is no higher than 30°C (86°F). After storage, check each part and function of your camera to make sure everything is still working properly.

Note:
- These cautions also apply to accessories such as battery packs and cassettes.

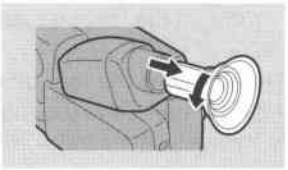
Maintenance

LCD

- Clean the LCD screen using a commercially available glass cleaner.
- Where there is a big change in temperature, moisture may form on the surface of the screen. Wipe clean with a soft, dry cloth.
- At low temperatures the display may appear to be much darker than usual. This is not a fault, and as the screen warms up the display will return to normal.

Viewfinder

- Clean the viewfinder screen using a blower brush. First, remove the eyepiece: turn the eyepiece anticlockwise and pull it out. To reattach it, align the mark on the eyepiece with the mark on its base and press it on until it clicks back into place.



Camera body and lens

- Use a soft, dry cloth to clean the camera body or lens. Never use chemically treated cloth or volatile solvents such as paint thinner.

Video heads

- When mosaic-like noise appears on the playback picture, the video heads may be dirty. When the video heads are badly contaminated, the camera may show a blank blue screen.
- Clean the video heads using Canon's CC-8 Video Head Cleaning Cassette. If the "noise" remains, repeat the cleaning (up to maximum of five times).
- Do not use a wet-type cleaning cassette, as this can cause damage.



Using the camera abroad

Power sources

- You can use the compact power adaptor to operate your camera and charge battery packs in any country where the electricity supply is between 110 and 240 V AC, 50/60 Hz. Contact your Canon dealer for information about plug adaptors for overseas use.

TV playback

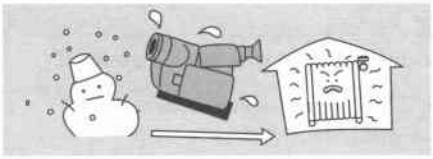
- Although you can always play back your recordings on the LCD screen, your camera can only be connected to TVs which use its PAL system. This TV system is used in the following countries:
 Algeria, Australia, Austria, Bangladesh, Belgium, Brunei, China, Denmark, Finland, Germany, HongKong, Iceland, India, Indonesia, Ireland, Italy, Jordan, Kenya, Kuwait, Liberia, Malaysia, Malta, Mozambique, the Netherlands, New Zealand, Noth Korea, Norway, Oman, Pakistan, Portugal, Qatar, Sierra Leone, Singapore, South Africa, Spain, Sri Lanka, Swaziland, Sweden, Switzerland, Tanzania, Thailand, Turkey, Uganda, United Arab Emirates, United Kingdom, Yemen, former Yugoslavia, Zambia.

- You can view the NTSC tape with the camera when connected to a television operating on 60 Hz (p. 46)

Condensation

Condensation may form on the camera when it is moved from a cold place to a warm place. Using the camera while condensation is present can damage both the tape and the camera.

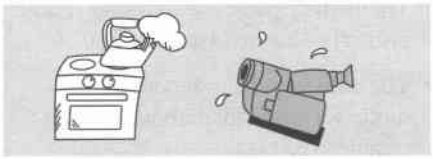
Condensation may become a problem:



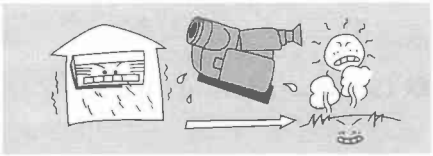
When you bring the camera from a cold place to a warm room



When a cold room is heated rapidly



When the camera is left in a humid room



When the camera is taken from an air-conditioned room to a warm, humid place

Protecting the camera from condensation

- Before you bring the camera to a warm or humid place where condensation is likely to be a problem, unload the cassette and put the camera in a plastic bag. Wait until the camera reaches room temperature before you take it out of the bag.
- When the surface of the video camera is wet, do not use it. Wait for hours until the whole video camera dries.

What happens when condensation is detected

- TAPE flashes in the display. If there is a cassette in the camera, immediately remove the cassette, and place the cassette container opened on a dry location. If condensation has formed on the camera, only the POWER switch and EJECT ⏏ button function.

What you should do

- Remove the cassette, leave the cassette compartment open, and turn the camera off.
- Leave it in a dry place until the condensation evaporates. After the condensation warning stops flashing, wait at least another hour before trying to use the camera.

Troubleshooting

E

Refer to this checklist first if you have any problems with your camcorder. Possible explanations are given for each problem on the list — turn to the page numbers in brackets for more information.

Make sure that the camera is properly connected if you are using it with a TV or VCR. Consult your dealer or service outlet if problems persist.

Recording/Playback

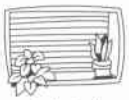
Problem	Cause and/or what to do about it
? Nothing happens when I press the buttons.	• The camera is not switched on (p. 11, 18). • The cassette is not loaded or is set for erasure prevention (p. 9-10). • The tape has reached the end. • The battery pack is exhausted or not properly attached (p. 6, 7, 58).
? The camera turned itself off.	• The camera was in record pause mode for more than about five minutes (p. 11). • The battery pack is exhausted (p. 7).
? The start/stop button doesn't work.	• The POWER switch is not set to CAMERA (p. 11). • The cassette is not loaded or is set for erasure prevention (p. 9-10). • The tape has reached the end.
? There's no picture in the display.	• The POWER switch is not set to CAMERA (p. 11).

? The camera won't focus.

- The camera is on manual focus (p. 43).
- The viewfinder lens needs adjusting (p. 55).
- The lens is dirty (p. 61).

Note:

- Some subjects are not suitable for autofocus. In these situations, you will often get better results using manual focus (see p. 43). Focus on something which is about the same distance away, lock the focus, and then point the camera at your original, hard-to-focus subject.



Horizontal stripes



Many subjects at different distances



Behind glass



Without much contrast (e.g. a white wall)



Reflective surfaces (e.g. shiny car surfaces)



Fast moving objects



Slanted subjects



Dark subjects



Night scenes

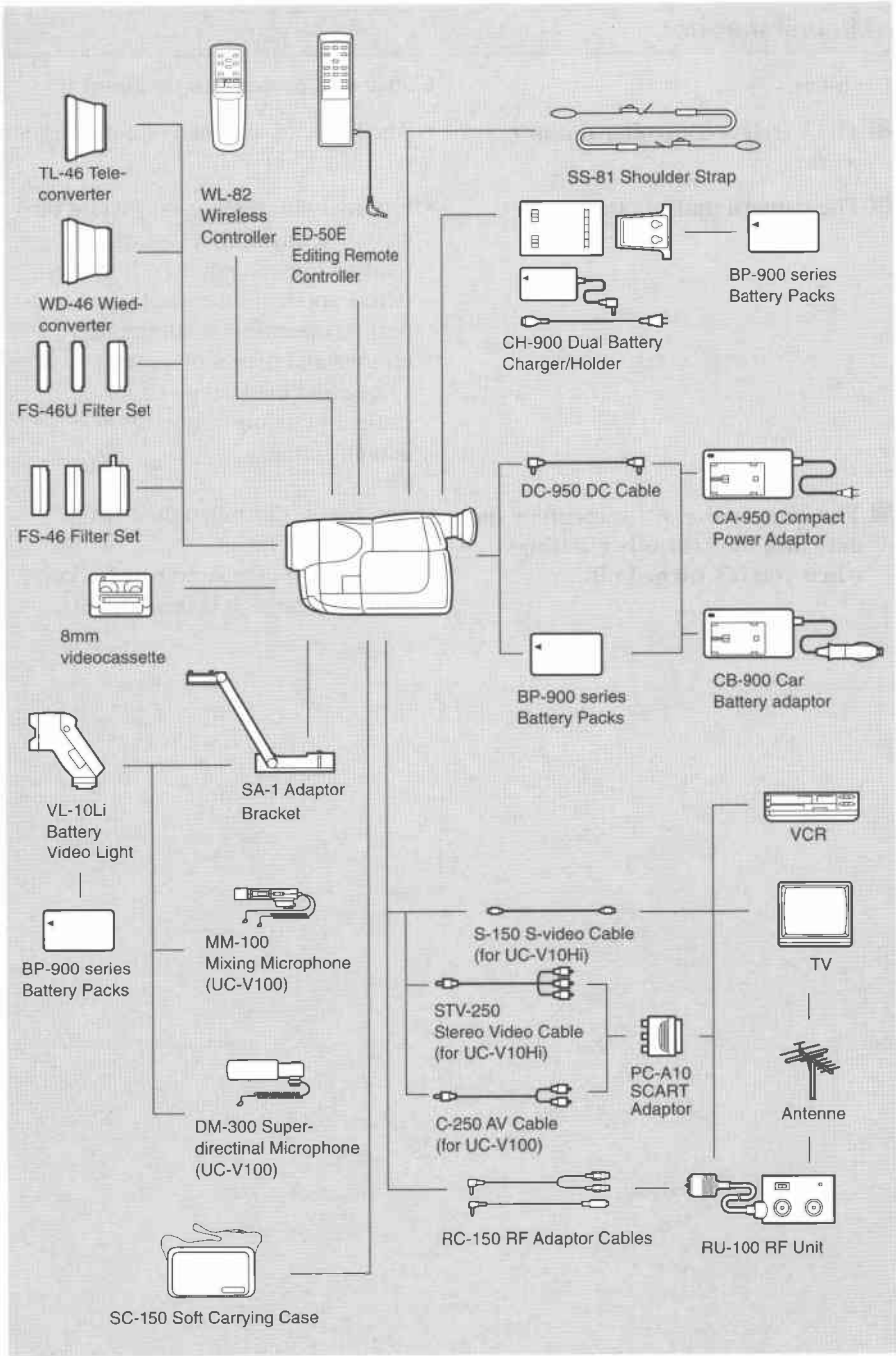
Recording/Playback (Contd.)

Problem	Cause and/or what to do about it
The ▶ (play) button doesn't work.	• The POWER switch is not set to PLAY (p. 18). • The cassette is not loaded (p. 9). • The tape has reached the end.
There's a bright stripe on the screen.	• When recording in dark places a bright light in the scene or in the vicinity of the camera may cause a vertical light bar ("smear") to appear. This is a normal feature of camcorders.
The playback picture is rough.	• The video heads need cleaning (p. 62).
There's no picture on the TV screen, even though the tape is moving.	• The video heads need cleaning (p. 62). • The TV/VIDEO selector on the TV isn't set to VIDEO (p. 22). • If connected using the optional RF unit the video channel has not been selected.
There's no sound coming from the speaker during playback.	• The speaker volume is set to the minimum level (p. 20).
The display shows the image stabilization, close-up, fader, digital effects and title without operating the camcorder.	• The camera entered the demonstration mode. To cancel it, disconnect the power source from the camera and reconnect it, or insert a cassette.

Miscellaneous

Problem	Cause and/or what to do about it
■ The wireless controller doesn't work.	• The batteries are dead or not inserted.
■ The camera malfunctions.	• External interference may cause the camera's microprocessor to malfunction temporarily. If random letters appear in the display or if normal operation is interrupted, remove and then replace the power source and the backup battery: camera functions return to their default setting.
■ The camera doesn't remember the date and time (or other settings) when you it's turned off.	• You haven't installed the backup battery (p. 59). • You need to change to new backup battery because it is dead (p. 59).

The UC-V10Hi/UC-V100 System Diagram (Availability differs from area to area)

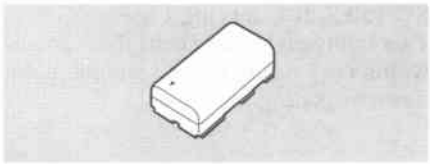


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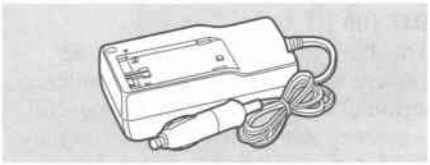
Additional Information

Optional Accessories

BP-900 series Battery packs
For use with the UC-V10Hi/UC-V100. It is also available as an optional accessory.

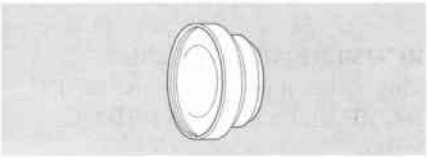


CB-900 Car Battery Adaptor
Power your camera, or recharge battery packs on the move. The car battery adaptor plugs into your car's cigarette lighter socket and runs off a 12-24 V DC negative ground battery.

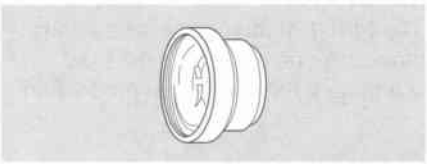


TL-46 Tele-converter
This tele-converter lens increases the focal length of the camera lens by a factor of 1.4. The zoom and autofocus operate as usual, so you can take full advantage of the extra range.

- The image stabilizer is not as effective as usual when the tele-converter is attached.

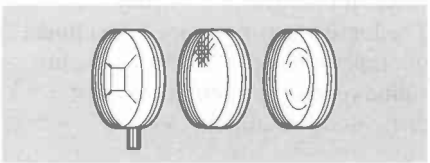


WD-46 Wide-converter
This lens decreases focal length by a factor of 0.7, giving you a wide perspective for indoor shots or panoramic views - and you can still use both zoom and autofocus.

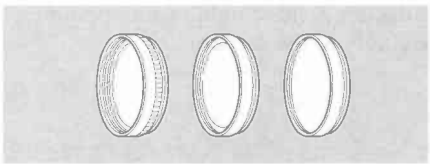


FS-46 Filter Set
Three special effects filters to add a creative touch to your recordings: multiple-image, R-cross and zoom-spot.

- Focus manually when using special effects filters.



FS-46U Filter Set
Ultraviolet, neutral density and circular polarizing filters to help you take control of difficult lighting conditions.

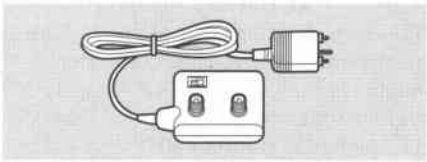


E

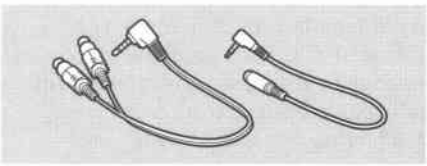
SC-150 Soft Carrying Case
This lightweight bag keeps the camera within easy reach without weighing you down or getting in the way.



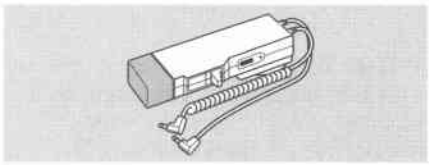
RU-100 RF Unit
This optional converter allows the camera to be connected to the antenna terminal of any TV. It can be a useful accessory while traveling, as you may need it if you want to connect the camera to a TV in your hotel room.



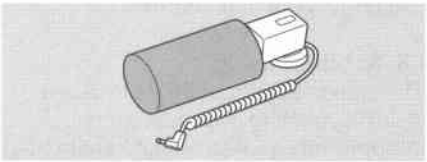
RC-150 RF Adapter Cable
This makes it possible to use the RU-100 RF Unit with UC-V10Hi/UC-V100.



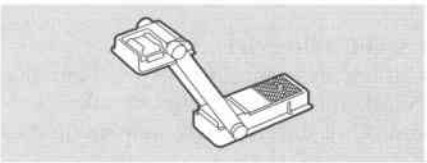
MM-100 Mixing Microphone (for UC-V100)
The MM-100 mixes live sound and music, so you can create the ideal soundtrack for your video productions.



DM-300 Super-directional Microphone (for UC-V100)
The highly sensitive super-directional microphone helps you obtain quality sound recording even in the most difficult conditions.



SA-1 Adaptor Bracket
Attaches a video light or microphone securely to the camera.

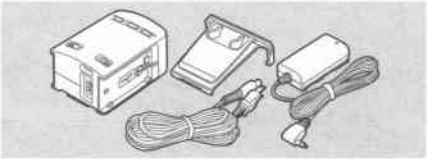


VL-10Li Battery Video Light
This compact yet powerful video light can be used for both indoor and outdoor shooting.



- Lithium ion battery packs are used to power the light.
 Approximate usage times are as follows:
 BP-915: 60 min. BP-914: 50 min. BP-927: 100 min. BP-930: 120 min.
 BP-941: 160 min. BP-930R: 120 min.

CH-900 Dual Battery Charger/ Holder
This holds two battery packs and can charge them both consectively.
It can then be connected directly to the UC-V10Hi/UC-V100 to give twice the playback time.

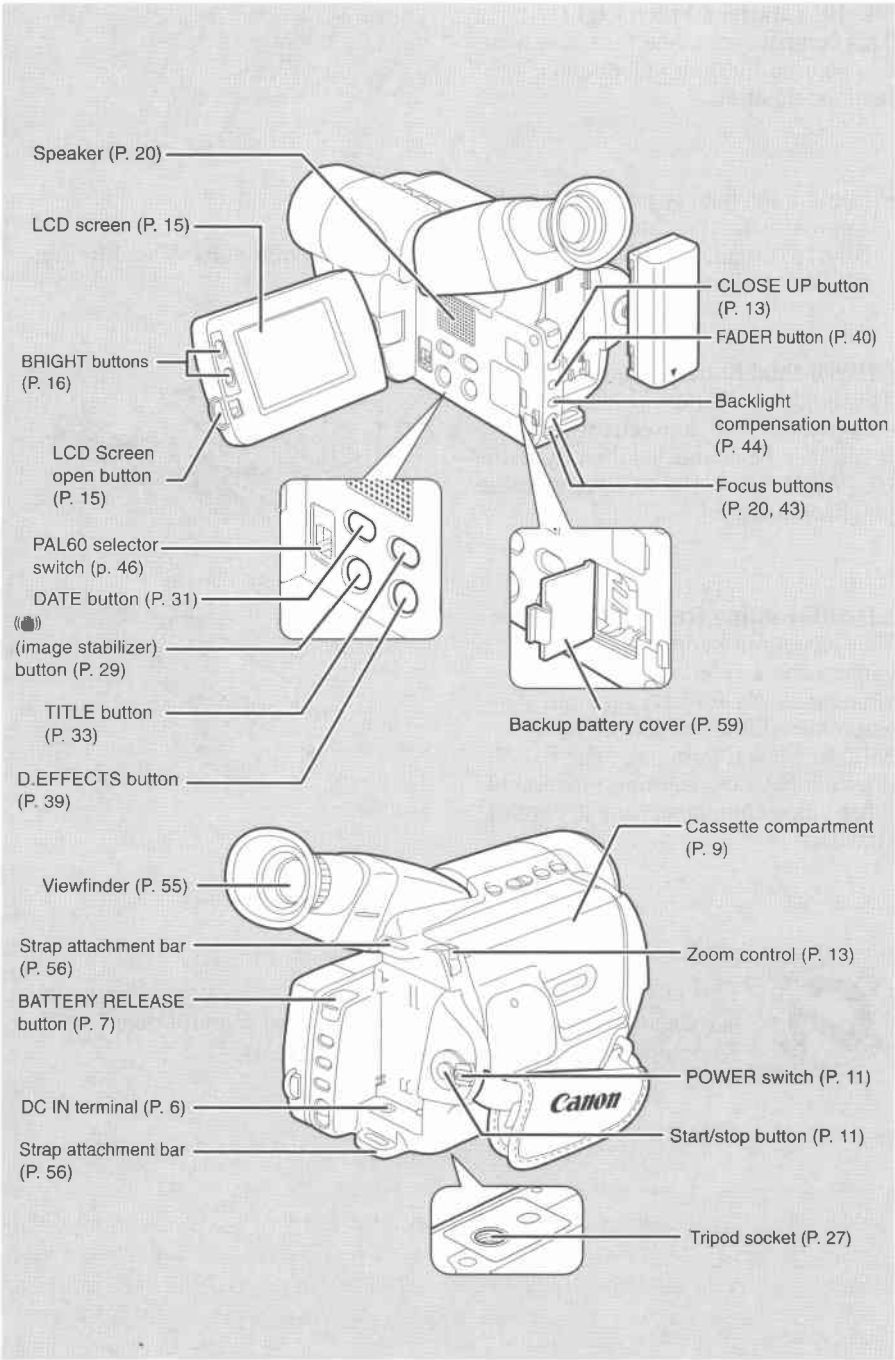


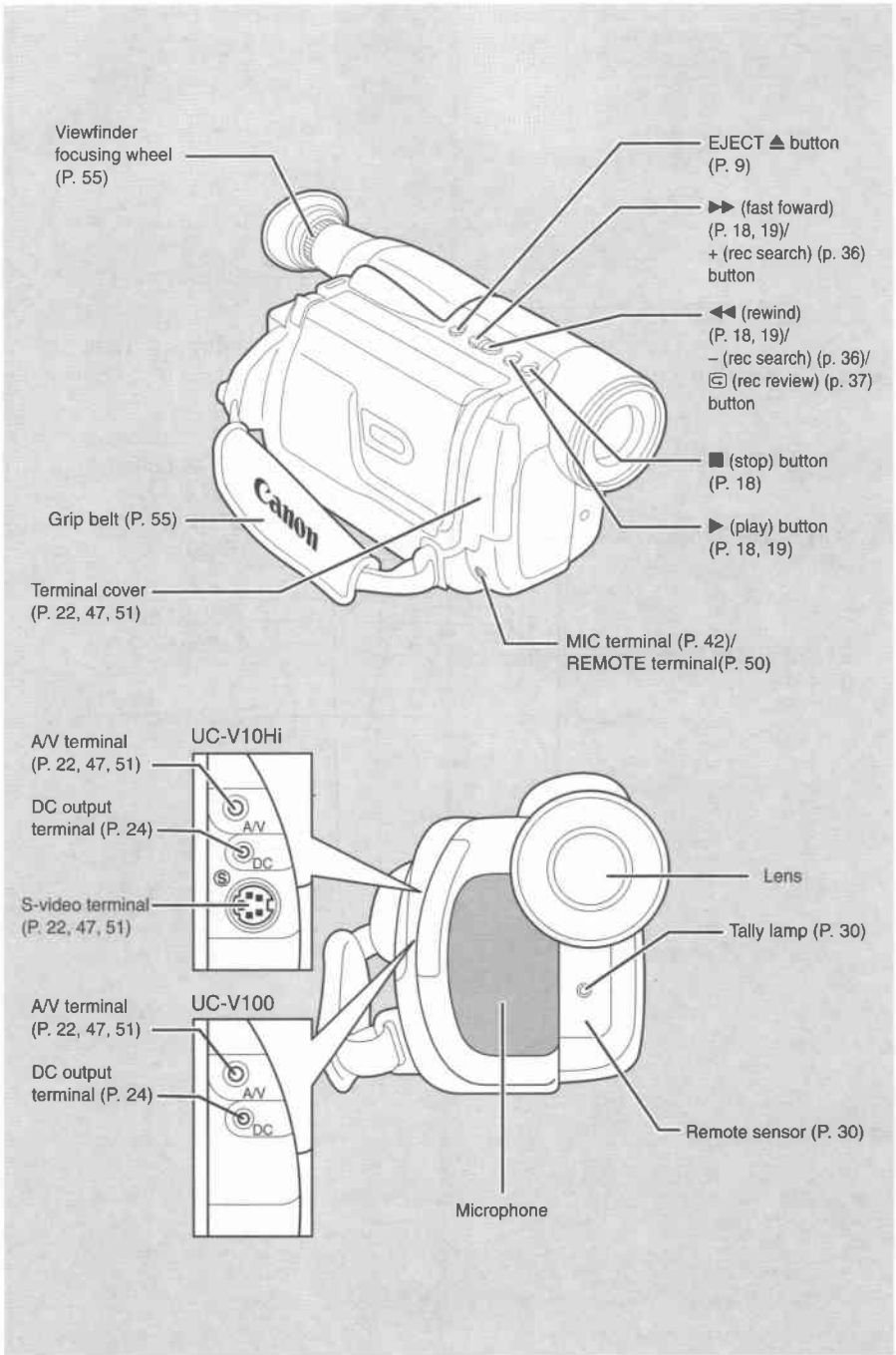
ED-50E Editing Remote Controller
This easy-to-use editor controls the camera and a video recorder simultaneously for fast, accurate assembly editing. It links up to MIC/REMOTE terminal. (The ED-50 does not have the learning function of other video equipment remote control signals.)

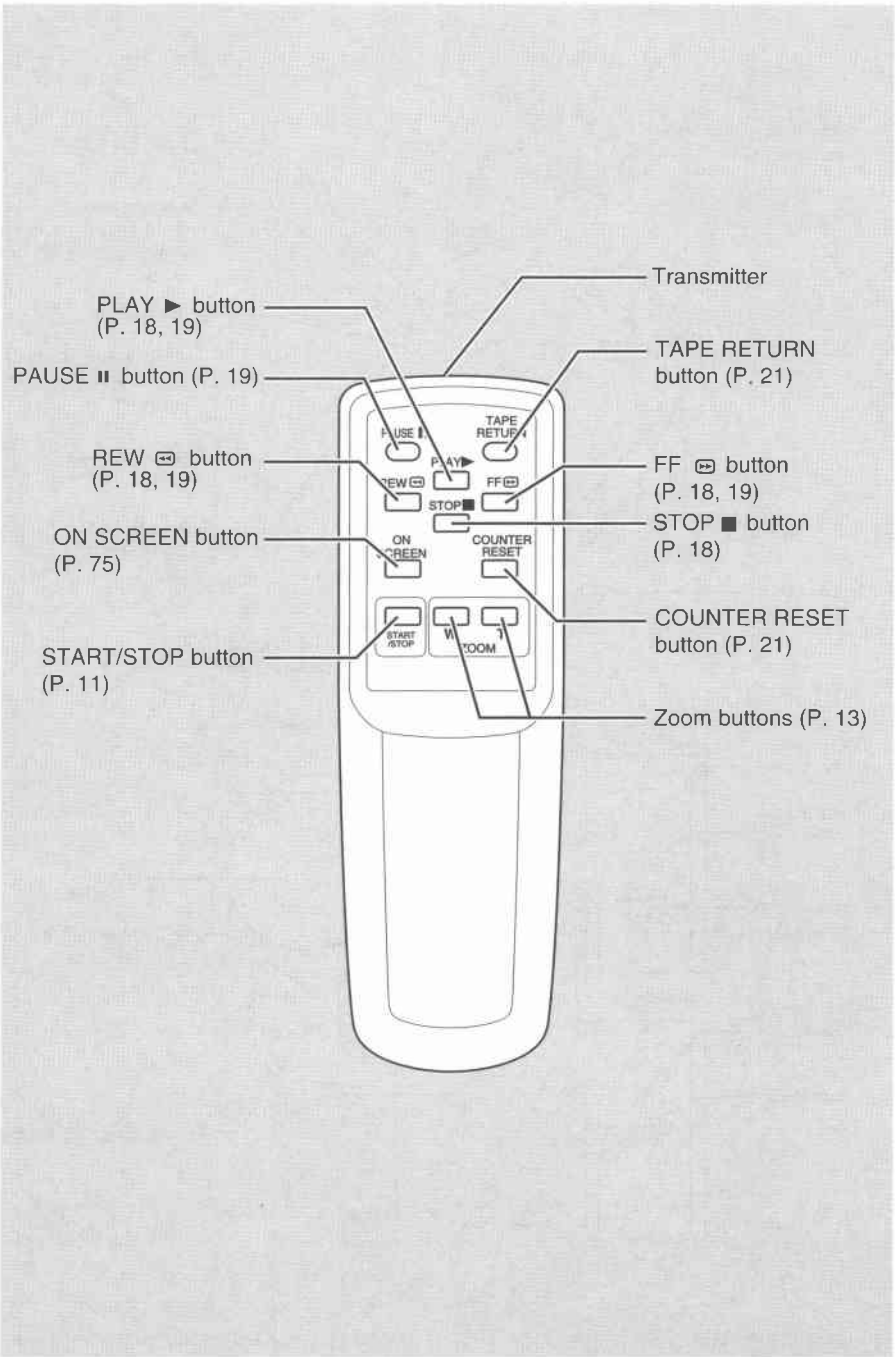


This mark identifies genuine Canon video accessories. When you use Canon video equipment, we recommend Canon-brand accessories or products bearing the same mark.

Finding Your Way Around the UC-V10Hi/UC-V100



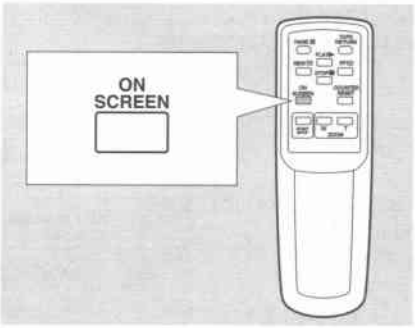

Viewfinder
focusing wheel
(P. 55)
EJECT ⏏ button
(P. 9)
▶▶ (fast foward)
(P. 18, 19)/
+ (rec search) (p. 36)
button
◀◀ (rewind)
(P. 18, 19)/
– (rec search) (p. 36)/
⊡ (rec review) (p. 37)
button
■ (stop) button
(P. 18)
▶ (play) button
(P. 18, 19)
Grip belt (P. 55)
Terminal cover
(P. 22, 47, 51)
MIC terminal (P. 42)/
REMOTE terminal(P. 50)
Canon
UC-V10Hi
A/V terminal
(P. 22, 47, 51)
DC output
terminal (P. 24)
S-video terminal
(P. 22, 47, 51)
A/V
DC
S
UC-V100
A/V terminal
(P. 22, 47, 51)
DC output
terminal (P. 24)
A/V
DC
Lens
Tally lamp (P. 30)
Remote sensor (P. 30)
Microphone


Transmitter
PLAY ▶ button (P. 18, 19)
PAUSE ⏸ button (P. 19)
TAPE RETURN button (P. 21)
REW ⏪ button (P. 18, 19)
FF ⏩ button (P. 18, 19)
STOP ■ button (P. 18)
ON SCREEN button (P. 75)
COUNTER RESET button (P. 21)
START/STOP button (P. 11)
Zoom buttons (P. 13)
TAPE RETURN
PLAY
REW
FF
STOP
ON SCREEN
COUNTER RESET
START /STOP
ZOOM

Screen Displays

Use the wireless controller's ON SCREEN button to see the other displays on the TV screen/in the camera display. (The displays appear white on-screen.) They will not be added to any recordings you make with the camera. The displays disappear from the TV screen/the camera display during normal playback.

indicates a flashing display.



Record pause mode (p. 11)



Recording (p. 11)



Shows how much battery power remains (p. 58).



The battery pack is exhausted (p. 7, 58).



Remaining tape:

Near tape winding start position



Near midway winding position



Near tape winding end position



Up to about 10 seconds after starting recording/playback



Hi 8 Recording or playback.



PAL60 (p. 40)



The camera is ejecting the tape (p. 9).



Playback is stopped (p. 18).



Normal playback (p. 18)



Still playback (p. 19)



Fast forward (p. 18)



Rewind (p. 18)



Fast forward playback/ High-speed search (forward) (p. 19)



Rewind playback/ High-speed search (rewind) (p. 19)



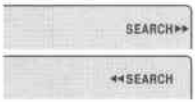
Tape return (forward and reverse) (p. 21)



Date Search (p. 45)



Date Search (forward and reverse) (p. 45)



Zoom display (p. 13): Optical zoom



Optical plus digital zoom



Close-up



Zoom in



Zoom out



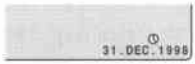
The image stabilizer is turned on (p. 29).



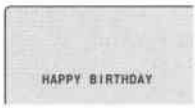
Date and time (p. 31)



Auto date recording



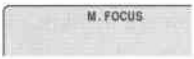
Title (p. 33)



Appears when you are writing a title.



Manual focus is selected (p. 43)



The brightness of the LCD screen (p. 16)



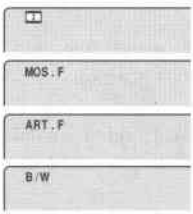
The volume of the speaker (p. 20)



Digital effects. The display flashes when the function has been selected and appears steadily when it is turned on (p. 38).



Digital faders (p. 40)



Flashing: When the remaining amount of tape has run out within three minutes during recording.



Lit: When the tape has run out during recording.



Flashing (disappear after 5 seconds): When the recording-prohibited tape is inserted and the power is turned ON.



Flashing: When the power is turned ON without a tape inserted.



Warning (p. 57)

Flashing: When condensation or other error occurs.

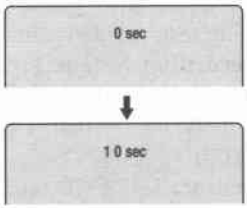


Tape counter



The tape counter indicates the apporximate running time of the tape -1 hour, 23 minutes and 45 seconds in this example. The tape counter is reset when a cassette is loaded, or when you press the wireless controller's COUNTER RESET button.

Recording reminder



When you start recording, the camera counts from 0SEC to 10SEC. Shots which are shorter than 10 seconds may be difficult to edit later. On the other hand, if you are not planning to edit the recording, remember that a shot which does not contain action should generally last no longer than 10 seconds.

Specifications

E

UC-V10Hi/UC-V100

Power Supply (rated): 7.2 V DC
Power Consumption (while recording with the AF turned on): UC-V10Hi: 3.7 W (LCD screen OFF), 4.8 W (LCD screen ON); UC-V100: 3.5 W (LCD screen OFF), 4.6 W (LCD screen ON)
Television system: CCIR standard (625 lines, 50 fields) PAL colour signal
Video recording system: 2 rotary heads, helical scanning system; luminance signal: FM azimuth recording; chrominance signal: converted subcarrier phase shift recording (8mm video standard)
Audio recording system: Frequency multiplexing with the video signal (2 channels: UC-V10Hi, 1 channel: UC-V100)
Image sensor: 1/4" CCD (charge coupled device) 570,000 pixels (370,000 effective pixels)
Tape format: 8mm videocassette, metal evaporated/metal particle (UC-V10Hi), metal particle (UC-V100)
Tape speed: 20.05 mm/s
Fast forward/rewind time: Approx. 6.5 minutes (with a P5-90 cassette)
Lens: F/1.4–2.8, 16× power zoom, 4–64 mm
Focusing system: TTL autofocus, manual focusing possible
Minimum focusing distance: Wide-angle end: 1cm (3/8 in); telephoto end: 1m (3 ft 3 in)
Minimum illumination: 0.5 lx
Recommended illumination: More than 100 lx
Viewfinder: 0.5-inch monochrome CRT
LCD screen: 3" measured diagonally (7.6 cm), 90,000 pixels (approx.)
Microphone: UC-V10Hi: Stereo electret condenser microphone
UC-V100: non-directional electret condenser microphone
Output level: Video terminal: 1 Vp-p/75 ohms unbalanced
S-video terminal (UC-V10Hi): 1 Vp-p (Y signal), 0.286 Vp-p (C signal)
Audio terminal: –10dBv, less than 2.2 kohms, unbalanced
Operating temperature range: 0–40 °C (32–104 °F)
Dimensions: 115 × 125 × 219mm (4 1/2 × 4 7/8 × 8 5/8 in)
Weight: 910g (2 lb 1/8 oz)

BP-915 Battery Pack

Battery type: Rechargeable lithium ion battery
Rated voltage: 7.2 V DC
Operating temperature: 0°–40°C (32°–104°F)
Battery capacity: 1,500 mAh
Dimensions: 38.2 × 20.5 × 70.5 mm (1 1/2 × 3/4 × 2 3/4 in)
Weight: 96 g (3 3/8 oz)

Weight and dimensions are approximate.
Errors and omissions excepted.
Subject to change without notice.

Additional Information

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